2016-2018

CATALOG

LAKE LAND COLLEGE

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Volume XXXVII
Lake Land College
Community College District #517
5001 Lake Land Boulevard
Mattoon, Illinois 61938

CONNECT WITH LAKE LAND COLLEGE

IMPORTANT PHONE NUMBERS

COLLEGE OFFICES

All numbers are 217 area code unless otherwise specified

Information for all college numbers except those listed below	**217-234-5253**
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Tutoring	234-5366

OFF CAMPUS LOCATIONS

Eastern Region Center at the Forsythe Center	
224 S. Sixth St., Marshall	826-8490
Kluthe Center for Higher Education and Technology	
1204 Network Centre Blvd., Effingham	540-3555
Massage Therapy Program	540-3535
Physical Therapist Assistant Program	540-3535
Workforce Development Center	
305 Richmond Avenue East	235-2222
Adult Education	238-8292
Center for Business & Industry	235-1282
Commercial Driver Training	238-8239
Community & Professional Programs	234-5467
Correctional Programs	540-3518
Pathways	238-8383
TRiO Destination College	234-5003
Traffic Safety	234-5467
Western Region Center	
600 E. First St., Pana	562-5000

Visit the phone directory online
lakelandcollege.edu

WELCOME FROM THE **PRESIDENT**

Welcome to Lake Land College! Within this catalog, you will discover the programs, services and guidelines that will help you define success in your own way. Lake Land College offers more than 150 workforce ready and transfer ready programs that prepare you for the next stage in your life, whether that is immediately entering a career or transferring to complete a bachelor's degree.

Lake Land College's esteemed faculty have won numerous state, regional and national awards for excellence in teaching, and our college has twice been named in the top 10 percent of all community colleges in the nation by the Aspen Institute.

Four-year universities work with us to welcome our transfer students as juniors, and area employers seek out applicants who list Lake Land College on their resumes.

Equally as important to academic quality in today's economy is cost. Lake Land College's tuition and fees are approximately one-fourth of the cost of the average state university and more than one-seventh of the average private technical schools' tuition and fees. Textbook rental, a student fitness center and free parking, printing, and tutoring all add up to save you thousands of dollars per year.

Lake Land offers you a complete college experience with campus life, student government and leadership opportunities, intercollegiate athletics, private housing adjacent to campus, intramurals and weekly entertainment and activities.

We would love to see you on campus! Join us for one of five Laker Visit Day open houses or schedule a personal campus visit online at lakelandcollege.edu/visit or call 217-234-5232. You can tour our beautiful 317-acre campus with a current student, meet with faculty, and discuss your options with an academic advisor. We look forward to welcoming you to Laker Nation! Go Lakers!

DR. JOSH BULLOCK ◆ PRESIDENT

MISSION

Lake Land College creates and continuously improves an affordable, accessible, and effective learning environment for the lifelong educational needs of the diverse communities we serve.

Our college fulfills this mission through:

- University transfer education
- Technical and career education
- Workforce development
- Community and continuing education
- Intellectual and cultural programs

VISION

Engaging minds, changing lives, through the power of learning.

VALUES

Caring ◆ Showing respect and compassion for others

Communication ◆ Creating an environment that values the open exchange of ideas

Excellence ◆ Consistently achieving the highest level of quality

Innovation ◆ Taking risks to create new opportunities

Teamship ◆ Working together and with others to create a whole greater than the sum of the parts

BOARD OF TRUSTEES

Pictured, left to right, first row: MIKE SULLIVAN, Mattoon, trustee, 1987-2017; DORIS REYNOLDS, Mattoon, trustee, 1993-2017; GARY CADWELL, Mode, chairman, 2009-2021; DAVE STORM, Effingham, secretary, 2013-2019, Second row: ROBERT K. LUTHER, Mattoon, vice chairman, 2011-2017; BRUCE OWEN, Dieterich, trustee, 2013-2019; ANN DETERS, Effingham, trustee, 2015-2021; ADAM DOTY, Beecher City, student trustee, 2015-2016.

ACADEMIC CALENDAR

FALL SEMESTER 2016

AUGUST

19 Staff Development 8-10 a.m. Full Services Resume at 10 a.m.
22 First Meeting of Full Semester & Module I Classes
26 Last Day for Refund – Module I

SEPTEMBER

2 Last Day for Refund – Full Semester
5 College Closed
16 Mid-Term Module I
17 No Day or Evening Classes

OCTOBER

4 College Career Day/Adjunct Faculty Development Evening – No Day or Evening Classes
10 Last Day for Withdrawal – Module I
14 Last Day of Classes – Module I
14 Mid-Term Full Semester
17 First Meeting of Module II Classes
21 Last Day for Refund – Module II

NOVEMBER

10 Mid-Term – Module II
23 Staff Development – No Day or Evening Classes
24-27 College Closed

DECEMBER

2 Last Day to File Intent to Graduate for Fall
5 Last Day for Withdrawal – Full Semester & Module II
9 Last Day of Classes – Full Semester & Module II
12-15 Final Examinations
16 Semester Close Grades Due at Noon

SPRING SEMESTER 2017

JANUARY

6 Staff Development 8-10 a.m. Full Services Resume at 10 a.m.
9 First Meeting of Full Semester & Module I Classes
13 Last Day for Refund – Module I
16 College Closed
23 Last Day for Refund – Full Semester

FEBRUARY

6 Mid-Term Module I
27 Last Day for Withdrawal – Module I

MARCH

3 Last Day of Classes Module I
3 Mid-Term Full Semester
6-10 Spring Recess – No Day or Evening Classes
10 College Closed
13 First Meeting of Module II Classes
17 Last Day to File Intent to Graduate for Spring
17 Last Day for Refund – Module II

APRIL

6 & 7 Staff Development Days – No Day or Evening Classes
10 Mid-Term Module II
14 College Closed

MAY

2 Last Day for Withdrawal – Full Semester & Module II
8 Last Day of Classes – Full Semester and Module II
9-12 Final Examinations
12 Commencement – 7:30 p.m.
15 Semester Close Grades Due at Noon

SUMMER TERM 2017

MAY

15 First Meeting of Classes – Intersession
15 Last Day for Refund – Intersession
29 College Closed
30 Last Day for Withdrawal – Intersession
31 Last Day of Classes – Intersession

JUNE

5 First Meeting of Classes
12 Last Day for Refund
29 Mid Term

JULY

4 College Closed
24 Last Day for Withdrawal
27 Last Day to File Intent to Graduate for Summer
31 Last Day of Classes

AUGUST

1-2 Final Examinations
3 Summer Term Closes Grades Due at Noon

Dates that all college offices are closed **2016–2017**

- September 5, 2016 – Labor Day
- November 24–27, 2016 – Thanksgiving
- December 23, 2016 through January 2, 2017 – Semester Break
- January 16, 2017 – Martin Luther King Jr. Day
- March 10, 2017 – Spring Break
- April 14, 2017 – Good Friday
- May 29, 2017 – Memorial Day
- July 4, 2017 – Independence Day

COLLEGE OPEN MONDAY THROUGH THURSDAY ONLY MAY 19 THROUGH AUGUST 11.

FALL SEMESTER 2017

AUGUST

18 Staff Development 8-10 a.m. Full Services Resume @ 10 a.m.
21 First Meeting of Full Semester & Module I Classes
25 Last Day for Refund – Module I

SEPTEMBER

1 Last Day for Refund – Full Semester
4 College Closed
15 Mid-Term Module I September
23 No Day or Evening Classes

OCTOBER

3 College Career Day/Adjunct Faculty Development Evening – No Day or Evening Classes
9 Last Day for Withdrawal – Module I
13 Last Day of Classes – Module I
13 Mid-Term Full Semester
16 First Meeting of Module II Classes
20 Last Day for Refund – Module II

NOVEMBER

9 Mid-Term – Module II
22 Staff Development – No Day or Evening Classes
23-26 College Closed

DECEMBER

1 Last Day to File Intent to Graduate for Fall
4 Last Day for Withdrawal – Full Semester & Module II
8 Last Day of Classes – Full Semester & Module II
11-14 Final Examinations
15 Semester Close – Grades Due Noon

SPRING SEMESTER 2018

JANUARY

5 Staff Development 8-10 a.m. Full Services Resume @ 10:00 a.m.
8 First Meeting of Full Semester & Module I Classes
12 Last Day for Refund – Module I
15 College Closed
22 Last Day for Refund – Full Semester

FEBRUARY

2 Mid-Term Module I
26 Last Day for Withdrawal – Module I

MARCH

2 Last Day of Classes Module I
2 Mid-Term Full Semester
5-9 Spring Recess – No Day or Evening Classes
9 College Closed
12 First Meeting of Module II Classes
16 Last Day to File Intent to Graduate for Spring
16 Last Day for Refund – Module II
30 College Closed

APRIL

5 & 6 Staff Development Days – No Day or Evening Classes
9 Mid-Term Module II

MAY

1 Last Day for Withdrawal – Full Semester & Module II
7 Last Day of Classes – Full Semester and Module II
8-11 Final Examinations
11 Commencement – 7:30 p.m.
14 Semester Close – Grades Due Noon

SUMMER TERM 2018

MAY

14 First Meeting of Classes – Intersession
14 Last Day for Refund – Intersession
28 College Closed
29 Last Day for Withdrawal – Intersession
30 Last Day of Classes – Intersession

JUNE

4 First Meeting of Classes
11 Last Day for Refund
28 Mid Term

JULY

4 College Closed
23 Last Day for Withdrawal
26 Last Day to File Intent to Graduate for Summer
30 Last Day of Classes
31-1 Final Examinations

AUGUST

2 Summer Term Closes – Grades Due Noon

Dates that all college offices are closed **2017–2018**

- September 4, 2017 – Labor Day
- November 23–26, 2017 – Thanksgiving
- December 22, 2017 – January 1, 2018 – Semester Break
- January 15, 2018 – Martin Luther King Jr. Day
- March 9, 2018 – Spring Break
- March 30, 2018 – Good Friday
- May 28, 2018 – Memorial Day
- July 4, 2018 – Independence Day

COLLEGE OPEN MONDAY THROUGH THURSDAY ONLY MAY 18 THROUGH AUGUST 10.

OUR EDUCATIONAL GUARANTEE

TWO EDUCATIONAL GUARANTEES ARE OFFERED TO LAKE LAND COLLEGE GRADUATES.

The Occupational Program Guarantee is offered to students graduating from an occupational program with an Associate in Applied Science degree or a certificate.

The Baccalaureate/Transfer Program Guarantee is offered to students graduating with an Associate in Arts, Associate in Engineering Science or Associate in Science degree.

OCCUPATIONAL PROGRAM GUARANTEE POLICY

GUARANTEE

It is the policy of Lake Land College that students graduating with an Associate in Applied Science degree or certificate in a career/occupational program be guaranteed competency in the technical skills that the program is designed to teach in the degree or certificate. Graduates of degree programs who jointly with their employers determine they are lacking in the technical skills contained in the program and graduates who have been unsuccessful in passing required licensure exams after two attempts shall be permitted to enroll in up to 15 credit hours of retraining for a degree or nine (9) credit hours of retraining for a certificate, tuition free.

NOTIFICATION AND CONDITIONS

This policy shall become effective with new degree or certificate seeking students of the 1994 fall term.

All course work for the degree or certificate must have been completed at Lake Land College with a grade of "C" or better within three years of initial enrollment at the college and the graduate must have been employed full-time in a job directly related to his/her training within one year after graduation from the program. Upon written verification from the employer within six months of the graduate's initial employment that the graduate lacks competency in specific technical skills as represented by the degree or certificate information printed in the college catalog, or other printed matter, a retraining plan will be developed through the office of the Associate Vice President for Workforce Development. The retraining will be limited to courses regularly offered by the college on the main campus and must be completed within one calendar year.

BACCALAUREATE/TRANSFER PROGRAM GUARANTEE POLICY

GUARANTEE

It is the policy of Lake Land College that students graduating with an Associate in Arts, Associate in Engineering Science or an Associate in Science degree be guaranteed the transferability of Lake Land credits earned in the degree program to a previously declared baccalaureate degree granting Illinois public college or university. If a course that is selected from the Articulation Transfer Guide is successfully completed with a grade of "C" or better within three years of initial enrollment and is not accepted for transfer by a given university, Lake Land College will refund tuition paid by the student for said course.

NOTIFICATION AND CONDITIONS

This policy shall become effective with new degree seeking students of the 1994 fall term.

To call the guarantee, the student must submit a letter to the associate vice president for educational services showing evidence of acceptance at and enrollment in the transfer institution and stating which credits did not transfer along with a letter from the transfer institution stating why the course(s) did not transfer. If the college verifies that the course(s) should have transferred according to course equivalency guides in effect at the time the course was taken and when the transfer was attempted, and if the college is unable to rectify the problem with the transfer institution, the student's tuition paid for the course(s) will be refunded. No refunds will be issued for tuition paid by a third party.

Accredited by:

The Higher Learning Commission; Member – North Central Association [30 North LaSalle Street, Suite 2400, Chicago, IL 60602, 312-263-0456]

Commission for Accreditation in Physical Therapy Education – American Physical Therapy Association

Council on Dental Education, American Dental Association

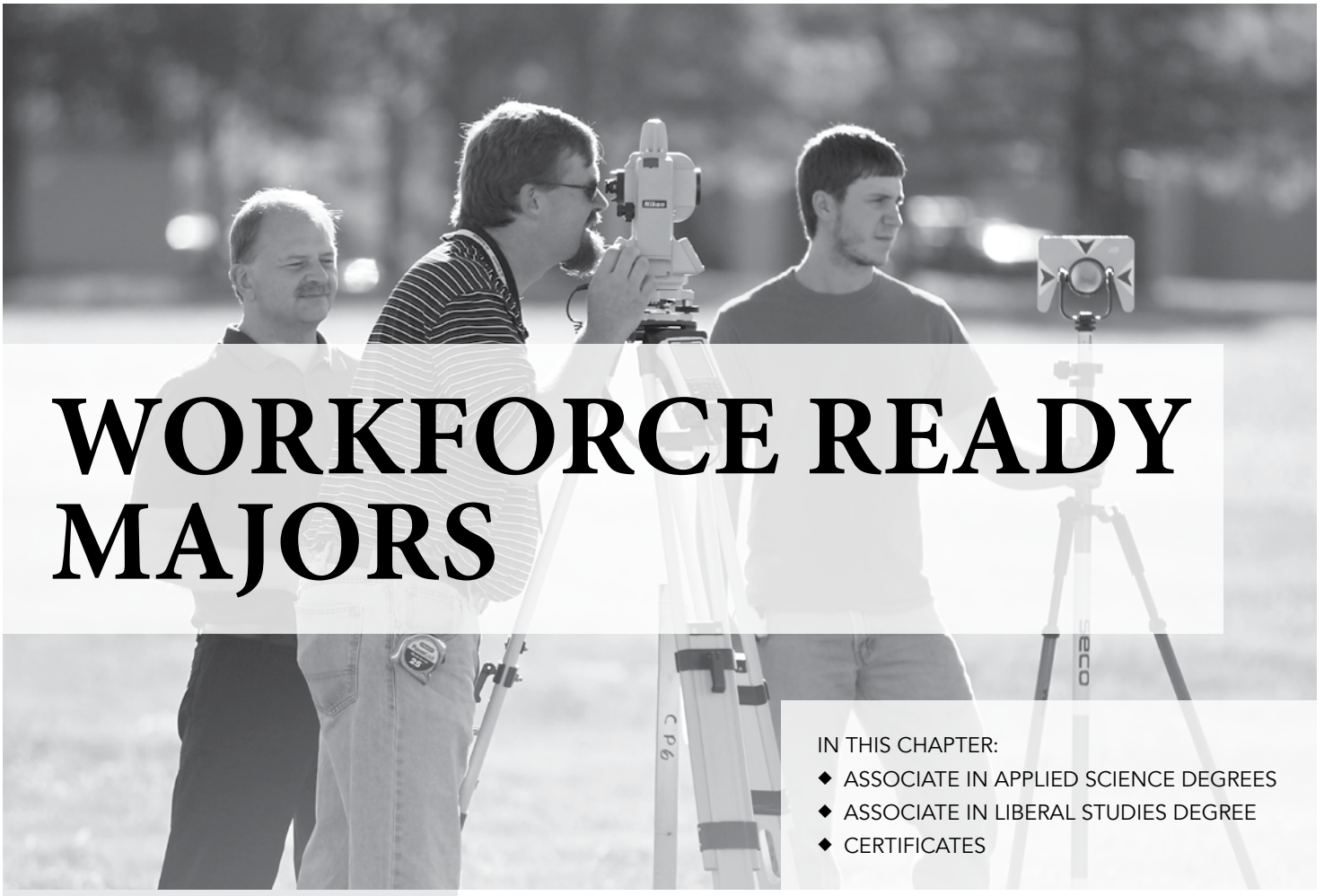
Accreditation Commission for Education in Nursing

Automotive Service Excellence Master Certified

Approved as a Class I Community College by:

Illinois Community College Board

Illinois Board of Higher Education



WORKFORCE READY MAJORS

IN THIS CHAPTER:

- ASSOCIATE IN APPLIED SCIENCE DEGREES
- ASSOCIATE IN LIBERAL STUDIES DEGREE
- CERTIFICATES

WORKFORCE READY

Majors are designed to move students from college into the workforce in a relatively short time period.

- Associate in Applied Science degree programs are typically two-year programs however some special admission programs require several pre-requisites.
- Certificate programs are three semesters or less.
- Many of the Workforce Ready majors provide "transfer tracks" for students, providing options to take classes that will transfer to the university.

GENERAL EDUCATION REQUIREMENTS

WORKFORCE READY MAJORS
ASSOCIATE IN APPLIED SCIENCE DEGREE

Communication	3 Semester Hours
Social Science	3 Semester Hours
Mathematics/Science	2 Semester Hours
Health/Physical Education *or* Strategies for Success *or* Recreation	2 Semester Hours
	10 SEMESTER HOURS

Six (6) semester hours of general education are designated in the model schedules of the individual programs. These six semester hours must be taken in a minimum of two (2) of the following areas: Communications, Mathematics, Physical and Life Sciences, Humanities and Fine Arts, and Social and Behavioral Sciences. Courses in Health, Physical Education, Recreation, and Strategies for Success are also eligible.

16 SEMESTER HOURS

WORKFORCE READY MAJORS

AGRICULTURE 217-234-5208

ALLIED HEALTH 217-234-5201 or 217-234-5447

BUSINESS 217-234-5348

HUMANITIES AND COMMUNICATIONS 217-234-5271

MATH AND SCIENCE 217-234-5309

SOCIAL SCIENCE / EDUCATION 217-234-5331

TECHNOLOGY 217-234-5313

COUNSELING SERVICES 217-234-5232

CENTER FOR BUSINESS AND INDUSTRY 1-800-789-1282 – 305 RICHMOND AVE E

TRANSFER AGREEMENTS

Lake Land College has many articulation agreements with senior institutions that allow for a seamless transfer once a student has completed the Associate in Applied Science (AAS), Associate in Arts (AA), Associate in Science (AS) or an Associate in Liberal Studies (ALS) Degree.

Eastern Illinois University
Accounting
Administrative Assistant – Executive
Administrative Assistant – Legal
Administrative Assistant – Medical
Agriculture Business & Supply
Associate Degree Nursing
Building Construction Technology
Child & Family Services
Civil Engineering/
Advanced Technical Studies
Computer-Aided Design
Computer Integrated
Manufacturing Technology
Desktop Publishing Graphic Design
Early Childhood Care and Education
Electronic Engineering Technology
Human Services
IT – Computer Applications
IT – Network Administration
IT – Programming
IT – Web Technology
Management
Marketing
Paramedical Services
Radio/TV Broadcasting

Illinois State University
Dental Hygiene
Electronic Engineering Technology
Human Services
Any Technology Program
IT
IT – Computer Applications
IT – Network Administration
IT – Programming
IT – Web Technology
Any appropriate degree in the
Licensing Areas for the
Occupational Specialist
Teacher such as Accounting, IT,
Management,
Automotive Technology,
Computer-Aided Design, Computer
Integrated Manufacturing,
Electronic Engineering Technology,
Mechanical Electrical Technology
Associate Degree Nursing

Lakeview College of Nursing
Associate Degree Nursing

Millikin University
Accounting
Business Administration
IT – Computer Applications
IT – Network Administration
IT – Programming
IT – Web Technology
Management
Marketing

Robert Morris University
Accounting
IT
Management
Marketing
Office Management

Southern Illinois University – Carbondale
Building Construction Technology
Civil Engineering Technology/
Advanced Technical Studies
Dental Hygiene
Electronics Engineering Technology
Electronic Systems Specialist
Fire Science Technology
IT
Radio/TV Broadcasting

Southern Illinois University – Edwardsville
Associate Degree Nursing 3 + 1

COOPERATIVE AGREEMENTS

Lake Land offers more than 150 degrees and certificates but students may be interested in a subject matter not offered by the college. In that case, a student can attend another community college in Illinois. Many community colleges in Illinois have agreements that allow students to study a specific program at another college if their home college does not offer that program. Called Cooperative Agreements, the colleges allow students from Lake Land College District 517 to study one of the following programs at the in-district tuition rate in effect at the college selected. Students interested in doing this, must follow the college's procedures for a Cooperative Agreement.

Any approved occupational credit-bearing certificate or associate in applied science degree program

Black Hawk College
Carl Sandburg College
Danville Area Community College
Elgin Community College
Heartland Community College
Highland Community College
Illinois Central College
Illinois Valley Community College
John Wood Community College
Joliet Junior College
Kankakee Community College
Kaskaskia College
Kishwaukee College
Lewis and Clark Community College
Lincoln Land Community College
McHenry County College
Moraine Valley Community College
Morton College
Prairie State College
Rend Lake College
Richland Community College
Rock Valley College
Sauk Valley Community College
South Suburban College
Southwestern Illinois College
Spoon River College
Waubonsee Community College

SPECIFIC PROGRAMS

Illinois Eastern Community Colleges

Frontier
Electrical Distribution Systems (Cert)

Lincoln Trail
Pharmacy Technician (Cert)
Radiography (AAS)

Olney Central
Collision Repair Technology (Cert)

Parkland College
Auto Collision (AAS)
Computer Tomography (Cert)
Food Service (Cert)
Hotel/Motel Management (Cert/AAS)
Magnetic Resonance Imaging (Cert)
Occupational Therapy Assistant (AAS)
Radiological Technology (AAS)
Respiratory Care (AAS)
Restaurant Management (AAS)
Surgical Technology (Cert/AAS)

PERKINS PROGRAMS OF STUDY

Perkins Programs of Study are course sequences in career and technical education that provide a seamless transition for students from secondary to postsecondary education and careers. This sequence of course offerings begins in the ninth grade and continues through at least two years of postsecondary education. Programs of study include opportunities to earn college credit (dual credit), industry recognized certificates at the post-secondary level and an associate or bachelor's degree. For more information regarding Programs of Study contact the Office of the Vice President for Academic Services, 217-234-5228.

TUITION CHARGEBACKS

If a student wishes to take a curriculum of study not offered in the home community college district, or through a cooperative agreement, the student may enroll in the program at another public Illinois community college district. The home community college district will pay the non-resident portion of the tuition while he/she is enrolled in such a program. This process is generally referred to as a "chargeback."

1. **Application Deadline**
   Application for Authorization of Partial Support must be made prior to the first day of classes of that semester or that summer term at Lake Land College and must be renewed each year.
2. **Definition of Curriculum**
   A curriculum is interpreted as an organized pattern of instruction within a discipline leading to a ***certificate or associate degree*** which is publicized in the official catalog of an Illinois public community college and approved by the Illinois Community College Board and the Illinois Board of Higher Education. Both full-time and part-time attendance is allowable. Individual courses, as in adult continuing education programs, are not considered programs for approval purposes, nor are programs that are generally considered to be baccalaureate oriented, e.g., architecture, since the majority of the courses normally taken during the first two years of such programs are readily available at Lake Land College.
3. **Determination of Whether or not a Curriculum is Offered by Lake Land College**
   A chargeback is not authorized if the desired curriculum is offered by Lake Land College or through a cooperative agreement with another college. The determination of whether or not the desired program is offered is made by comparing the relevant Lake Land College programs and any cooperative agreement college programs to the desired curriculum and its component courses in the official catalogue of the college the applicant wishes to attend. If Lake Land College or a cooperative agreement college has a comparable curriculum, as determined by the Lake Land College Dean of Admissions Services, no chargeback will be authorized.
4. **Residency Qualification**
   To qualify for a chargeback, the student must be a permanent resident of District 517. The residence of unemancipated persons is that of their parents. If the applicant is of foreign citizenship, proof of permanent residence (green card or its new equivalent) is required.
5. **Change in Residency**
   Residents of District 517 are eligible for chargebacks after they have resided in the district 30 days and verify their residency with a voters registration card. Students who have Lake Land College chargebacks but establish permanent residence out of the district will have their chargebacks terminated at the end of the term in which they moved.
6. **Distance and Inconvenience**
   Distance and inconvenience are not considered as the basis for approving chargebacks. If a program is offered anywhere within District 517 (excluding programs at correctional centers) it is judged to be available. The time of day, the day of the week, or the particular semester or term of offering of the program or its component parts are not considered as factors affecting approval.
7. **Enrollment Limitation**
   The fact that a Lake Land College curriculum may have limited enrollment, is temporarily closed to enrollment or is regularly over-subscribed is not considered as a factor affecting approval.
8. **Failure to Meet Entrance Requirements**
   The fact that an applicant for a chargeback was refused admission to a Lake Land College curriculum because of failure to meet entrance requirements is not considered grounds for authorizing a chargeback for a comparable program at another institution. Lake Land College will not authorize a chargeback to someone attempting to meet the entrance requirements or prerequisites for a particular program at another college.
9. **Continuity of Authorization**
   If Lake Land College authorizes a chargeback, and subsequently develops a comparable curriculum, the student is not required to transfer back to Lake Land College for the balance of the program.
10. **Limit on Number of Programs per Applicant**
    A student may not have more than one chargeback at the same time.
11. **Repeated Courses, e.g., Incompletes, Failures, Drops or Withdrawals**
    The college will not pay for repeated courses students take to either raise their grade point average or in which they received incompletes, failures, drops or withdrawals.
12. **Schedule of Courses**
    The student issued a chargeback authorization is required to complete a schedule of courses (program) and return same to the Lake Land College Admissions & Records Office prior to the start of classes.
13. **Compliance Guideline**
    The Lake Land College Admissions & Records Office will audit each billing of chargebacks received. Courses taken which are not part of the approved program will not be honored for chargeback. That is, the entire out-of-district tuition for such courses must be borne by the student.

ACCOUNTING

(AAS.ACC) ASSOCIATE IN APPLIED SCIENCE

The Accounting program prepares students for entry-level positions in the accounting field. The graduate can become a general accountant for a small business or choose a specialized area in a large company such as a clerical position in accounts receivable, accounts payable, or payroll. Employment opportunities exist in small businesses, large businesses, public accounting firms, industry, not-for-profit organizations and governmental agencies.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
BUS-095	Fundamentals of Accounting	3.0
BUS-142	Introduction to Business	3.0
CIS-160	Practical Software Application *	3.0
BUS-094	Business Math	3.0
ENG-095	Business English or	
ENG-120	Composition I *	3.0
SFS-101	Strategies for Success or	
HED ---	Health Elective or	
PED ---	PE Elective	2.0
	SEMESTER TOTALS	**17.0**
Second Semester		
BUS-151	Financial Accounting *	3.0
ECO-130	The American Economy or	
ECO-231	Principles of Econ I (Macro)	3.0
BUS-251	Principles of Management	3.0
BUS-200	Legal Environ/Business	3.0
CIS-093	Access	2.0
BUS-120	Business Career Development	3.0
	SEMESTER TOTALS	**17.0**

SECOND YEAR

First Semester		Hours
BUS-098	Intermediate Accounting *	3.0
BUS-152	Managerial Accounting *	3.0
BUS-141	Business Communications *	3.0
BUS-086	Statistics for Business +	3.0
CIS-094	Excel	2.0
--- ---	General Education Elective	2.0
	SEMESTER TOTALS	**16.0**
Second Semester		
BUS-099	Computerized Accounting *	3.0
BUS-096	Federal Tax Accounting	3.0
BUS-097	Principles of Cost Accounting *	3.0
BUS-060	Automated Office Procedures * +++	3.0
BUS-087	Accounting Internship * or	
BUS/CIS	BUS/CIS Elective	3.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**65.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester

ACCOUNTING

(CRT.ACC) CERTIFICATE

The certificate in Accounting program prepares students to provide technical administrative support to professional accountants and other financial management personnel. All courses satisfactorily completed in this certificate program will apply to the associate in applied science degree with a major in accounting.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR

First Semester		**Hours**
BUS-095	Fundamentals of Accounting	3.0
BUS-094	Business Math	3.0
BUS-142	Introduction to Business	3.0
CIS-160	Practical Software Application *	3.0
BUS-141	Business Communications * or	
ENG-095	Business English	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
BUS-151	Financial Accounting *	3.0
BUS ---	Accounting Elective	3.0
BUS-200	Legal Environ/Business	3.0
ECO-130	The American Economy or	
ECO-231	Principles of Econ I (Macro)	3.0
CIS-093	Access or	
CIS-094	Excel	2.0
	SEMESTER TOTALS	**14.0**
Summer Term		
BUS ---	Accounting Elective	3.0
	SEMESTER TOTALS	**3.0**
	TOTAL PROGRAM HOURS	**32.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.

SUGGESTED ELECTIVES

BUS-096 Federal Tax Accounting *	3.0
BUS-097 Principles of Cost Accounting *	3.0
BUS-098 Intermediate Accounting *	3.0
BUS-099 Computerized Accounting *	3.0
BUS-152 Managerial Accounting *	3.0

ADVANCED AUTOMATION AND CONTROL

(CRT.AAC) CERTIFICATE

Graduates of this certificate will have developed the knowledge to integrate software with hardware in the industrial automation environment. Computer logic, basic programming skills, fundamentals of networking and controlling a process with instrumentation will be emphasized.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
PLC-040	Fund of Instrumentation	3.0
EET-057	Computer Systems Architecture *	3.0
PLC-050	PLC I-Allen Bradley SLC5/0x *	3.0
CIS-156	Computer Logic *	3.0
	SEMESTER TOTALS	**12.0**
Second Semester		
EET-063	Industrial Computer Systems	3.0
PLC-060	PLC II-Allen Bradley SLC5/0x *	3.0
EET-075	HMI-Human Machine Interface *	2.0
EET-066	Network Pro *	4.0
	SEMESTER TOTALS	**12.0**
	TOTAL PROGRAM HOURS	**24.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.

AG BUSINESS

(CRT.AGBUS) CERTIFICATE

The Agriculture Business certificate program is designed to prepare students for employment in beginning management and sales capacities in agriculture businesses including elevators, fertilizer companies and feed companies.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR

First Semester		Hours
AGR-040	Agricultural Mathematics + or	
MAT-116	General Education Math *	2.5
AGR-052	Principles of Crop Production + or	
AGR-060	Animal Husbandry +	3.0
AGR-050	Soils + or	
AGR-205	Intro/Soil Science	3.5
AGR-131	Agriculture Business Financing +	2.0
AGR-134	Business Analysis/Records +	2.0
--- ---	Elective	2.0
	SEMESTER TOTALS	**15.0**
Second Semester		
AGR-049	OSHA/Ag Mach Safety +++	1.0
AGR-111	Intro to Agriculture Software +++	2.0
AGR-204	Prin/Field Crop Science +++	3.0
AGR-123	Marketing of Ag Products +++	2.5
AGR-132	Retailing/Agri Supplies +++	2.0
AGR-133	Agriculture Salesmanship +++	2.5
AGR-041	Supervised Occupational Exp I +++	3.5
	SEMESTER TOTALS	**16.5**
Summer Term		
AGR-120	Agriculture Economics ++++ or	
AGR-207	Intro/Ag Economics	3.0
AGR-053	Integrated Pest Management ++++	3.0
AGR-042	Supervised Ocupational Exp II ++++	2.5
	SEMESTER TOTALS	**8.5**
	TOTAL PROGRAM HOURS	**40.0**

SUGGESTED ELECTIVES

AGR-124	Farm Credit and Finance ** +++	2.0
AGR-051	Soil Fertility ** +++	2.5
AGR-063	Animal Nutrition ** +++	2.5
AGR-151	GPS/Applications in Ag ** +	3.0
AGR-152	Intensive Crop Scouting ** +++	3.0

+ Course only offered fall semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
++++ Course offered in summer term only
** Electives must be approved by the Program Coordinator

AG POWER TECHNOLOGY

(AAS.AGPWR) ASSOCIATE IN APPLIED SCIENCE

Agriculture Power Technology is designed to give students skills in diesel machines, general overhaul, transmissions, electrical systems and the other skills required to operate as a technician. The program is also designed to develop students' skills in sales, parts and supplies in machinery dealerships. Students must purchase hand tools necessary for use in this program.

Note: Those students that are considering transferring to a university should contact their advisor as soon as possible.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
HED-178	Responding to Emergencies	2.0
AGR-091	Hydraulics +	3.0
AGR-080	Ignition & Electrical Systems +	3.5
AGR-083	Small Engines +	3.0
AGR-046	Introduction to Ag Occupations +	1.0
ENG-120	Composition I * or	
ENG-098	Communications I +	3.0
TEC-048	Applied Shop Computations or	
MAT-116	General Education Math *	3.0
	SEMESTER TOTALS	**18.5**
Second Semester		
AGR-092	Advanced Hydraulics * +++	3.0
AGR-041	Supervised Occupational Exp I +++	3.5
AGR-097	Planting and Tillage Equipment +++	3.0
AGR-111	Intro to Agriculture Software +++ ^^	2.0
SPE-111	Intro to Speech Communication or	
ENG-121	Composition II * or	
ENG-099	Communications II *	2.0
	SEMESTER TOTALS	**13.5**
Summer Term		
AGR-042	Supervised Ocupational Exp II ++	2.5
AGR-094	Ag Machinery Air Conditioning ++	3.0
AGR-086	Adjusting New and Used Mach ++	2.5
	SEMESTER TOTALS	**8.0**

SECOND YEAR

First Semester		Hours
AGR-043	Supv Occup Exp III +	3.0
AGR-087	Diesel Fuel Systems * +	3.0
AGR-088	Ag Trans & Power Trains * +	3.5
--- ---	Elective	1.0
SOS-050	Human Relations or	
PSY-271	Intr/Psychology	2.0
	SEMESTER TOTALS	**12.5**
Second Semester		
AGR-089	Tractor Overhaul * +++	6.0
AGR-044	Supv Occup Exp IV +++ ^^	3.5
AGR-082	Advanced Electrical Systems * +++	3.0
POS-160	American National Government	3.0
	SEMESTER TOTALS	**15.5**
	TOTAL PROGRAM HOURS	**68.0**

SUGGESTED ELECTIVES

AGR-131	Agriculture Business Financing +	2.0
AGR-133	Agriculture Salesmanship +++	2.5
WEL-057	Welding Fundamentals	2.5

+ Course only offered fall semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
++ Course only offered spring and summer semester
^^ Consult Academic Advisor for appropriate course

AG POWER TECHNOLOGY

(CRT.AGPWR) CERTIFICATE

Agriculture Power Technology is designed to prepare students as technicians and parts counter clerks for agriculture machinery dealerships. The program develops the student's skills necessary to diagnose and repair diesel fuel systems, engines, transmissions and electrical systems of agricultural equipment. Students must purchase hand tools necessary for use in this program.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
AGR-091	Hydraulics +	3.0
AGR-080	Ignition & Electrical Systems +	3.5
AGR-087	Diesel Fuel Systems * +	3.0
AGR-088	Ag Trans & Power Trains * +	3.5
TEC-048	Applied Shop Computations	3.0
AGR-083	Small Engines +	3.0
	SEMESTER TOTALS	**19.0**
Second Semester		
AGR-097	Planting and Tillage Equipment +++	3.0
AGR-082	Advanced Electrical Systems * +++	3.0
AGR-092	Advanced Hydraulics * +++	3.0
AGR-041	Supervised Occupational Exp I +++	3.5
AGR-089	Tractor Overhaul +++	6.0
	SEMESTER TOTALS	**18.5**
Summer Term		
AGR-094	Ag Machinery Air Conditioning ++++	3.0
AGR-086	Adjusting New and Used Mach ++++	2.5
	SEMESTER TOTALS	**5.5**
	TOTAL PROGRAM HOURS	**43.0**

+ Course only offered fall semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
++++ Course offered in summer term only

AGRICULTURE BUSINESS & SUPPLY

(AAS.AGBUS) ASSOCIATE IN APPLIED SCIENCE

This core curriculum is designed for those students who are planning a career in fertilizer, pest management, agri-business sales, management or ownership in these areas. While this curriculum is designed for agricultural business, it also provides transferability to Southern Illinois-Carbondale, Western Illinois and Illinois State universities.

Note: Those students that are considering transferring to a university should contact their advisor as soon as possible.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I * or	
ENG-098	Communications I +	3.0
PSY-271	Intr/Psychology or	
SOS-050	Human Relations	2.0
HED-178	Responding to Emergencies	2.0
AGR-046	Introduction to Ag Occupations +	1.0
AGR-040	Agricultural Mathematics + or	
MAT-116	General Education Math *	2.5
AGR-050	Soils + or	
AGR-205	Intro/Soil Science *	3.5
AGR-060	Animal Husbandry + or	
AGR-206	Intro/Animal Science	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
SPE-111	Intro to Speech Communication or	
ENG-121	Composition II * or	
ENG-099	Communications II * +++	2.0
CHM-101	Physical Science II +++	3.0
AGR-049	OSHA/Ag Mach Safety +++	1.0
AGR-152	Intensive Crop Scouting +++ or	
AGR-063	Animal Nutrition +++	2.5
AGR-041	Supervised Occupational Exp I +++	3.5
AGR-111	Intro to Agriculture Software +++ or	
AGR-112	Computer Applic/Agriculture +++	2.0
--- ---	Elective **	2.0
	SEMESTER TOTALS	**16.0**
Summer Term		
AGR-042	Supervised Ocupational Exp II ++++	2.5
AGR-120	Agriculture Economics ++++ or	
AGR-207	Intro/Ag Economics	3.0
AGR-053	Integrated Pest Management ++++	3.0
	SEMESTER TOTALS	**8.5**

SECOND YEAR

First Semester		Hours
AGR-052	Principles of Crop Production + or	
AGR-204	Prin/Field Crop Science +++	3.0
AGR-151	GPS/Applications in Ag +	3.0
AGR-043	Supv Occup Exp III +	3.0
AGR-131	Agriculture Business Financing +	2.0
AGR-134	Business Analysis/Records +	2.0
	SEMESTER TOTALS	**13.0**
Second Semester		
POS-160	American National Government	3.0
AGR-044	Supv Occup Exp IV +++	3.5
AGR-123	Marketing of Ag Products +++	2.5
AGR-132	Retailing/Agri Supplies +++	2.0
AGR-133	Agriculture Salesmanship +++	2.5
--- ---	Elective	0.5
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**68.5**

SUGGESTED ELECTIVES

AGR-051	Soil Fertility +++	2.5
BUS-085	Accounting Process	1.0
CIS-094	Excel	2.0
BUS-095	Fundamentals of Accounting	3.0
CIS-054	PowerPoint	2.0

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester
** Electives must be approved by the Program Coordinator
++++ Course offered in summer term only

AGRICULTURE PRODUCTION & MANAGEMENT

(AAS.AGPRO) ASSOCIATE IN APPLIED SCIENCE

This core curriculum is designed for those students who are planning a career in agricultural production, farming, ag production sales, and management or ownership in these areas. While this curriculum is designated for agricultural production, it also allows transferability to Illinois State, Southern Illinois and Western Illinois universities.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I * or	
ENG-098	Communications I +	3.0
PSY-271	Intr/Psychology or	
SOS-050	Human Relations	2.0
HED-178	Responding to Emergencies	2.0
AGR-046	Introduction to Ag Occupations +	1.0
AGR-040	Agricultural Mathematics + or	
MAT-116	General Education Math *	2.5
AGR-050	Soils + or	
AGR-205	Intro/Soil Science	3.5
AGR-060	Animal Husbandry + or	
AGR-206	Intro/Animal Science	3.0
	SEMESTER TOTALS	**17.0**

Second Semester		
SPE-111	Intro to Speech Communication or	
ENG-121	Composition II * or	
ENG-099	Communications II * +++	2.0
CHM-101	Physical Science II +++	3.0
AGR-049	OSHA/Ag Mach Safety +++	1.0
AGR-063	Animal Nutrition +++	2.5
AGR-041	Supervised Occupational Exp I +++	3.5
AGR-121	Farm Business Records +++	2.5
AGR-111	Intro to Agriculture Software +++ or	
AGR-112	Computer Applic/Agriculture +++	2.0
	SEMESTER TOTALS	**16.5**

Summer Term		
AGR-042	Supervised Ocupational Exp II ++++	2.5
AGR-120	Agriculture Economics ++++ or	
AGR-207	Intro/Ag Economics +	3.0
AGR-053	Integrated Pest Management ++++	3.0
	SEMESTER TOTALS	**8.5**

SECOND YEAR

First Semester		Hours
AGR-052	Principles of Crop Production + or	
AGR-204	Prin/Field Crop Science +++	3.0
AGR-090	Principles of Agri Mechanics +	2.5
AGR-043	Supv Occup Exp III +	3.0
AGR-122	Farm Management +	2.5
--- ---	Elective	1.5
	SEMESTER TOTALS	**12.5**

Second Semester		
POS-160	American National Government	3.0
AGR-044	Supv Occup Exp IV +++	3.5
AGR-123	Marketing of Ag Products +++	2.5
AGR-124	Farm Credit and Finance +++	2.0
AGR-051	Soil Fertility +++	2.5
	SEMESTER TOTALS	**13.5**
	TOTAL PROGRAM HOURS	**68.0**

SUGGESTED ELECTIVES

AGR-152	Intensive Crop Scouting +++	3.0
AGR-151	GPS/Applications in Ag +	3.0
AGR-054	Crop Harvesting/Drying/Storage +	2.5
CIS-094	Excel	2.0

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester
++++ Course offered in summer term only

ALTERNATIVE AGRICULTURE PRODUCTION

(AAS.ALAG) ASSOCIATE IN APPLIED SCIENCE

This core curriculum is designed for those students who are planning a career in alternative agriculture production including farming, ag production sales, and management or ownerships in these areas. The fundamentals of Agroecology, the incorporation of biological pest management, as well as sustainable crop and livestock production will be emphasized. While this curriculum is designed for immediate placement in alternative agriculture production, it also allows transferability to Illinois State, Southern Illinois, and Western Illinois universities.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I * or	
ENG-098	Communications I +	3.0
AGR-141	Introduction to Agroecology +	3.0
AGR-040	Agricultural Mathematics + or	
MAT-116	General Education Math *	2.5
AGR-050	Soils + or	
AGR-205	Intro/Soil Science	3.5
AGR-060	Animal Husbandry +	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
SPE-111	Intro to Speech Communication or	
ENG-121	Composition II * or	
ENG-099	Communications II * +++	2.0
CHM-101	Physical Science II +++	3.0
AGR-111	Intro to Agriculture Software +++	2.0
AGR-063	Animal Nutrition +++	2.5
AGR-041	Supervised Occupational Exp I +++	3.5
AGR-121	Farm Business Records +++	2.5
	SEMESTER TOTALS	**15.5**
Summer Term		
AGR-042	Supervised Ocupational Exp II ++++	2.5
AGR-120	Agriculture Economics ++++ or	
AGR-207	Intro/Ag Economics	3.0
AGR-145	Biological Pest Management ++++	3.0
	SEMESTER TOTALS	**8.5**

SECOND YEAR

First Semester		Hours
AGR-143	Organic Crop Production ++++	3.0
AGR-090	Principles of Agri Mechanics +	2.5
AGR-043	Supv Occup Exp III +	3.0
HRT-201	Introduction to Horticulture +	3.0
PSY-271	Intr/Psychology or	
SOS-050	Human Relations	2.0
	SEMESTER TOTALS	**13.5**
Second Semester		
POS-160	American National Government	3.0
HED-178	Responding to Emergencies	2.0
AGR-044	Supv Occup Exp IV +++	3.5
AGR-123	Marketing of Ag Products +++	2.5
AGR-124	Farm Credit and Finance +++	2.0
AGR-163	Forages and Pasture Management +++	2.5
	SEMESTER TOTALS	**15.5**
	TOTAL PROGRAM HOURS	**68.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester
++++ Course offered in summer term only

ASSOCIATE DEGREE NURSE

(AAS.ADN) ASSOCIATE IN APPLIED SCIENCE

Lake Land Partnerships

The Associate Degree in Nursing (ADN) program is an intensive, two-year academic program that includes classroom, skills laboratory and clinical experience in various healthcare agencies. The student is awarded an Associate in Applied Science degree upon completion of the program and may apply to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN). Upon successful completion of the NCLEX-RN, the graduate may apply for RN licensure. Completion of the ADN program does not guarantee RN licensure. The Department of Financial and Professional Regulation (IDFPR) may refuse to issue a license if a candidate has a criminal history. Please consult with the director of ADN program to avoid license application hindrances.

The program is approved by the Illinois Department of Financial and Professional Regulation and accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Rd NE, Suite 850, Atlanta, GA 30326; Phone: 404-975-5000, Fax: 404-975-5020.

Applicants seeking admission into the ADN program must have a completed nursing application file in the nursing department by February 1, or the preceding business day if February 1 falls on a weekend. Applicants will be notified in writing of acceptance/denial within six weeks following the deadline.

Download the ADN checklist from the website for the complete application procedure.

Admission Criteria

See college website for the complete ADN application procedure and checklists.

The following procedures and prerequisites must be satisfied before admission to the Lake Land College ADN program can be considered.

1. Complete an Intent to Enroll for Lake Land College and submit to Admissions & Records. (Note: acceptance to the college does not guarantee admission into the ADN program.)

2. Complete a Nursing Department Intent form indiciating interest in the Associate Degree Nursing program. These are available online, in the Nursing Department, or in Counseling Services.

3. Submit an official transcript from all colleges and/or nursing schools attended, to Admissions & Records. Request a transcript evaluation for AAS.ADN.

4. Provide documentation that the following prerequisites have been completed:

a. BIO 100 at Lake Land College, or equivalent college-level course.

b. One year of high school chemistry, or CHM 101, CHM 111, or CHM 120 at Lake Land College, or equivalent college-level course. (Chemistry must be completed within five years of program application deadline with a grade of "C" or better.)

5. Achieve satisfactory scores on the Lake Land College Placement test, Compass, or ACT to determine eligibility to take the HESI A2 Admissions Assessment exam. See ADN admission checklist for details.

6. Achieve a satisfactory score on the HESI A2 Admissions Assessment exam. A minimum acceptable score of 75 on the exam is required. If the exam is repeated the most recent score is used. Dates for the exam are available from the nursing department. To ensure complete application a satisfactory score must be obtained prior to the February 1 application deadline. Exam scores are valid for five years.

7. High school students who successfully complete Partnership for Career and College Success (PCCS) curriculum should consult with the director regarding enrollment requirements and procedures.

8. The ADN curriculum is outlined in this catalog. Co-requisite courses may be taken prior to or during the semester designated but, not after. Co-requisite courses are only accepted with a "C" or better. Completion of science courses required in the ADN program must be within five years of the program application deadline, with the exception of BIO 100.

9. Licensed Practical Nurses may apply in writing to the Nursing Department for a waiver of ADN 040, ADN 042, BIO 100 and HED 102. LPN's with a certificate from a non-accredited, vocational school will be required to take HED 102. See college website for LPN to ADN admissions checklist.

10. LPN applicants must complete (with a "C" grade or higher) PSY 279, Human Development; BIO 225, Human Anatomy and Physiology I; BIO 226, Human Anatomy and Physiology II; HED 290 Disease Process or BIO 235 Microbiology; and ADN 051 Transition to ADN, or equivalent college-level courses no later than the summer before beginning ADN 076.

11. State regulations require that qualified in-district residents must be accepted before any consideration can be given to out-of-district applicants. If there are more qualified applicants than spaces available in the program, admission is competitive and selective using an objective formula approved by the Nursing Department. Selection criteria includes the date on the intent form, academic achievement in prerequisite or co-requisite courses, and the HESI A2 Admissions Assessment raw score.

Acceptance

Acceptance is tentative upon completion/receipt of the following:

1. A completed Lake Land College ADN Program Physical Examination, proof of immunizations and current CPR certification to the Lake Land College Nurse's Office. (Note: CPR and immunizations must remain current throughout the program).

2. Complete background check and drug screening.

3. Attend the nursing program orientation during the summer semester preceding ADN 040. Students will be contacted regarding orientation date.

4. Maintain an overall grade point average of 2.00

Cost

In addition to tuition and fees, costs for nursing program include: textbooks, uniforms, supplies, physical examination and immunizations, background check, a drug screen, and transportation to hospital clinical experiences. Additional expenses upon completion of the program will include licensure application fees, NCLEX-RN test fees and RN license fees, upon successful completion of the NCLEX-RN exam.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR		
First Semester		**Hours**
PSY-279	Human Dev/Life Span	3.0
BIO-225	Human Ana/Phys I *	4.0
ADN-040	Nursing I +	8.0
	SEMESTER TOTALS	**15.0**
Second Semester		
ADN-042	Nursing II * +++	9.0
BIO-226	Human Ana/Phys II *	4.0
HED-102	Nutrition	3.0
ADN-053	Pharmacology I *	1.0
	SEMESTER TOTALS	**17.0**
Summer Term		
BIO-235	Microbiology * or	
HED-290	Disease Processes *	2.0
	SEMESTER TOTALS	**2.0**

SECOND YEAR		
First Semester		**Hours**
ADN-076	Nursing III * +	10.0
ENG-120	Composition I *	3.0
PSY-271	Intr/Psychology	3.0
ADN-074	Pharmacology II *	1.0
	SEMESTER TOTALS	**17.0**
Second Semester		
ADN-078	Nursing IV * +++	10.0
ENG-121	Composition II * or	
SPE-111	Intro to Speech Communication	3.0
	Elective ^^	3.0
ADN-060	Nursing Seminar * +++	1.0
ADN-075	Pharmacology III *	1.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**69.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester
^^ Consult Academic Advisor for appropriate course

ASSOCIATE DEGREE NURSE - TRACK

(AAS.ADN.TRK)

The Associate Degree in Nursing Track (AAS.ADN.TRK) prepares the student for acceptance into the Associate Degree in Nursing (ADN) program, which begins fall semester only. The nursing programs at Lake Land College are competitive and special admission.

Applicants are instructed to prepare for the ADN program by following AAS.ADN.TRK guidelines. Students are counseled regarding completion and course requirements when seeking admission into the ADN program, as well as course work that may increase success once accepted into the ADN Program. Upon acceptance into the ADN program, the director will change the program code to AAS.ADN.

Interested students should submit the Intent to Enroll form and list the Academic Program as AAS.ADN.TRK. Then, follow the ADN checklist carefully for instructions about the application procedure.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

AUTO MECHANIC

(CRT.AUTO) CERTIFICATE

This program prepares students with entry-level skills and knowledge necessary for employment in automotive repair maintenance shops as service or parts personnel. The curriculum is Automotive Service Excellence (ASE) certified and is designed to prepare students for ASE certification. Instruction is provided in a shop equipped with the most up-to-date equipment available. Students entering this program must purchase hand tools and uniforms needed for use in the program. The cost of the required tools can be up to $3,400 depending on brand/source. The required uniforms are approximately $140 and textbooks/lab manuals are approximately $300. A list of required tools can be obtained from counselors or auto instructors.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR

First Semester		Hours
ENG-050	Writing for Industry	3.0
TEC-048	Applied Shop Computations	3.0
AUT-048	Intro to Automotive Technology +	2.0
AUT-050	Engine Repair +	5.0
AUT-051	Electrical Systems I +	4.0
	SEMESTER TOTALS	**17.0**
Second Semester		
AUT-052	Engine Performance I +++	5.0
SPE-111	Intro to Speech Communication	3.0
--- ---	Social Science Elective	2.0
HED-178	Responding to Emergencies	2.0
AUT-053	Brake Systems +++	4.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**33.0**

+ Course only offered fall semester
+++ Course only offered spring semester

SUGGESTED ELECTIVES

SFS-101 Strategies for Success	2.0

AUTOMOTIVE TECHNOLOGY

(AAS.AUTO) ASSOCIATE IN APPLIED SCIENCE

This degree prepares students with entry-level skills and knowledge necessary for employment in automotive repair maintenance shops as service or parts personnel. The curriculum is Automotive Service Excellence (ASE) certified and is designed to prepare students for ASE certification. Instruction is provided in a shop equipped with the most up-to-date equipment available. Students entering this program must purchase hand tools and uniforms needed for use in the program. The cost of the required tools can be up to $3,400 depending on brand/source. The required uniforms are approximately $140 and textbooks/lab manuals are approximately $510. A list of required tools can be obtained from counselors or auto instructors.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
AUT-048	Intro to Automotive Technology +	2.0
AUT-050	Engine Repair +	5.0
AUT-051	Electrical Systems I +	4.0
ENG-050	Writing for Industry	3.0
TEC-048	Applied Shop Computations	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
AUT-052	Engine Performance I +++	5.0
SPE-111	Intro to Speech Communication	3.0
--- ---	Social Science Elective	2.0
HED-178	Responding to Emergencies	2.0
AUT-053	Brake Systems +++	4.0
	SEMESTER TOTALS	**16.0**
Summer Term		
AUT-054	Heating and Air Conditioning I * ++++	3.0
AUT-075	Supervised Occupational Exp * ++++	3.0
	SEMESTER TOTALS	**6.0**

SECOND YEAR

First Semester		Hours
AUT-059	Electrical Systems II * +	4.0
AUT-080	Steering and Suspension * +	4.0
AUT-081	Engine Performance II * +	5.0
--- ---	Economics Elective	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
AUT-076	Auto Transmissions/Transaxles * +++	5.0
AUT-082	Manual Dr Train and Axles * +++	5.0
AUT-083	Engine Performance III * +++	2.0
AUT-089	ASE Test Review +++	2.0
--- ---	Technical Elective	2.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**71.0**

SUGGESTED ELECTIVES

SFS-101	Strategies for Success	2.0
--- ---	Social Science Elective	2.0
ECO-130	The American Economy	3.0
ECO-231	Principles of Econ I (Macro)	3.0
IND-044	Fluid Power	3.0
MTT-050	Intro to Machining Procedures	3.0
WEL-057	Welding Fundamentals	2.5
BUS-142	Introduction to Business	3.0

\+ Course only offered fall semester
+++ Course only offered spring semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
++++ Course offered in summer term only

BASIC NURSE ASSISTING

(NDP.NA) CERTIFICATE

Non-Degree Program

The Basic Nursing Assistant Program (NPD.NA)is a one semester, 8 credit-hour program approved by the Illinois Department of Public Health (IDPH). This program includes the Basic Nursing Assistant Course (CNA) only and is NOT financial aid eligible.

Background Check

The Health Care Worker Background Check Act requires all students in a Nursing Assistant Training Program to submit to a fingerprint-based background check before working directly with patients or residents.

Examination

Students must successfully complete the Basic Nursing Assistant course (AHE 040) with an 80 or better to be eligible to take the IDPH Competency Evaluation Examination. Upon passing the state competency examination, the student's name will be added to the IDPH Health Care Worker Registry and will be eligible to work as a Certified Nursing Assistant.

Course Description

AHE 040: Basic Nursing Assistant: The Basic Nursing Assistant Program includes 95 hours of theory/classroom and 40 hours of clinical practice. This program is approved by the Illinois Department of Public Health (IDPH) to provide instruction of basic nursing skills in the classroom, laboratory, and clinical settings. The classroom portion of the course includes: basic anatomy, medical terminology, communication skills, safety, infection control and patient rights.

This course contains substantial information on Alzheimer's disease and dementia resident/patient care and emphasizes communication and coping mechanisms fundamental to working with this patient population. The curriculum also includes proper management of resident/patient hygiene and mobility, and monitoring of vital signs. In the nursing lab, students master the 21 patient care skills mandated by IDPH. The instructor will demonstrate skills; students will then practice skills until achieving mastery level in the lab with other students. Eleven of the twenty-one skills must be performed with a patient or resident during clinical sessions.

The clinical experience provides students with the opportunity to perform supervised practice of required clinical skills, including bathing, feeding, and transfer of residents/patients.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

The BNA campus phone number is 217-234-5568 and the office is located in Neal Hall, room 023.

FIRST YEAR		
First Semester		**Hours**
AHE-040	Basic Nurse Assisting	8.0
	SEMESTER TOTALS	**8.0**
	TOTAL PROGRAM HOURS	**8.0**

Completers of this program do NOT earn a certificate from Lake Land College.

BASIC NURSING ASSISTANT

(NDP.BNA) CERTIFICATE

Certificate

The Basic Nursing Assistant Program (NDP.BNA)is a 17 hour certificate program approved by the Illinois Department of Public Health (IDPH). This program includes the Basic Nursing Assistant course (CNA) and three other core courses. This program is financial aid eligible.

Background Check

The Health Care Worker Background Check Act requires all students in a Nursing Assistant Training Program to submit to a fingerprint-based background check before working directly with patients or residents.

Examination and Certification

Students must successfully complete the Basic Nursing Assistant course (AHE 040) with an 80 or better to be eligible to take the IDPH Competency Evaluation Examination. Upon passing the state competency examination, the student's name will be added to the IDPH Health Care Worker Registry and will be eligible to work as a Certified Nursing Assistant.

Course Description

AHE 040: Basic Nursing Assistant: The Basic Nursing Assistant Program includes 95 hours of theory/classroom and 40 hours of clinical practice. This program is approved by the Illinois Department of Public Health (IDPH) to provide instruction of basic nursing skills in the classroom, laboratory, and clinical settings. The classroom portion of the course includes: basic anatomy, medical terminology, communication skills, safety, infection control and patient rights.

This course contains substantial information on Alzheimer's disease and dementia resident/patient care and emphasizes communication and coping mechanisms fundamental to working with this patient population. The curriculum also includes proper management of resident/patient hygiene and mobility, and monitoring of vital signs. In the nursing lab, students master the 21 patient care skills mandated by IDPH. The instructor will demonstrate skills; students will then practice skills until achieving mastery level in the lab with other students. Eleven of the twenty-one skills must be performed with a patient or resident during clinical sessions.

The clinical experience provides students with the opportunity to perform supervised practice of required clinical skills, including bathing, feeding, and transfer of residents/patients.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

The BNA campus phone number is 217-234-5568, and the office is located in Neal Hall, room 023.

Students who complete this program will enhance their knowledge and skills to be more marketable as a certified nursing assistant in all health care settings.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
AHE-040	Basic Nurse Assisting	8.0
AHE-041	Medical Terminology	3.0
AHE-045	Professionalism in Health Care	3.0
BUS-059	Medical Insurance and Coding	3.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**17.0**

Completers of the program receive a certificate from Lake Land College.

BROADCAST ANNOUNCING

(CRT.RTVAN) CERTIFICATE

Students will be prepared for a career as an on-air talent for radio or television by working with various forms of live and recorded announcing, including news, weather, and advertising. All coursework in the Broadcast Announcing certificate can be applied to an associate in applied science degree in Radio/TV Broadcasting.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
RTV-150	Introduction to Broadcasting +	3.0
RTV-155	Radio TV Announcing +	3.0
RTV-072	Fall Sportscasting + or	
RTV-082	Fall Athletic Announcing +	1.0
SPE-111	Intro to Speech Communication	3.0
--- ---	Career Elective	3.0
	SEMESTER TOTALS	**13.0**
Second Semester		
RTV-073	Spring Sportscasting +++ ^^ or	
RTV-083	Spring Athletic Announcing +++ ^^	2.0
RTV-160	Radio Station Operation +++	5.0
RTV-165	Broadcast Writing +++	4.0
	SEMESTER TOTALS	**11.0**
	TOTAL PROGRAM HOURS	**24.0**

+ Course only offered fall semester
+++ Course only offered spring semester
^^ Consult Academic Advisor for appropriate course

BUILDING CONSTRUCTION TECHNOLOGY

(AAS.BCT) ASSOCIATE IN APPLIED SCIENCE

The primary objective of the Building Construction Technology program is to prepare the student for a career in the building construction industry immediately upon graduation. This associate degree program is designed to produce versatile building construction technicians capable of working in a variety of positions such as cost estimators, builders, computer drafters, surveyors and manufacturing representatives. With additional experience, these technicians could fill the positions of engineer's representative, construction supervisor, building inspector or self-employed building contractor. Employers interested in such technicians are building contractors, manufacturers, architectural, or engineering firms and testing laboratories.

Students are required to furnish their own basic drafting equipment. The cost of the equipment is approximately $40.

Consult an advisor for transfer options.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
TEC-050	Technical Math I (Module 1)	2.0
TEC-052	Technical Math II (Module 2) *	2.0
BCT-045	Plans and Specifications (Module 2)	3.0
TEC-045	Introduction to Drafting (Module 1)	2.0
BCT 054	Basic Carpentry I	4.0
CET-060	Surveying I	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
BCT-062	Architectural Drafting II *	4.0
TEC-054	Technical Math III (Module 1) *	2.0
TEC-056	Technical Math IV (Module 2) *	2.0
CAD-056	CAD I	2.0
EET-069	Residential Wiring I	3.0
HED-178	Responding to Emergencies	2.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
TEC-060	Analytical Mechanics *	4.0
BCT-064	Construction Surveying Layout *	3.0
ENG-050	Writing for Industry	3.0
SPE-111	Intro to Speech Communication	3.0
--- ---	Suggested Electives	4.0
	SEMESTER TOTALS	**17.0**
Second Semester		
TEC-080	Strength/Materials *	4.0
BCT-076	Architectural Design *	4.0
ECO-130	The American Economy or	
--- ---	Suggested Elective	3.0
TEC-043	Industrial Safety	1.0
BCT-089	Construction Estimating	3.0
--- ---	Suggested Elective	3.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**66.0**

SUGGESTED ELECTIVES

CET-056	PCC Theory and Design *	2.0
BUS-089	Small Business Management	3.0
BUS-251	Principles of Management	3.0
CIS-068	Computer Appl-Special Topics	2.0
CAD-057	CAD II *	3.0
CET-054	Soils + Aggregates	4.0
BCT 055	Basic Carpentry II	5.0
BCT-041	Post Frame Construction	2.0
BCT-078	Architectural S.O.E.	2.0

* There are prerequisites, course requisites, or minimum placement test scores for this course.

CET/ADVANCED TECHNICAL STUDIES

(AAS.CETAT) ASSOCIATE IN APPLIED SCIENCE

This option of the Civil Engineering Technology program allows a graduate to continue his or her education at Southern Illinois University in Carbondale or Eastern Illinois University. Graduates from this program of study are able to complete a bachelor of science degree in Technical Resource Management at SIUC with only an additional 60 semester hours of course work.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
MAT-130	College Algebra *	3.0
CET-060	Surveying I	3.0
CET-054	Soils + Aggregates +	4.0
CET-051	Civil Construction I +	3.0
ENG-120	Composition I *	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
MAT-210	Finite Mathematics *	3.0
CET-056	PCC Theory and Design * +++	2.0
CET-057	Asphalt Theory and Design * +++	2.0
TEC-045	Introduction to Drafting	2.0
SPE-111	Intro to Speech Communication	3.0
CAD-056	CAD I	2.0
HED-178	Responding to Emergencies or	
SFS-101	Strategies for Success	2.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
PHY-130	College Physics I * +	4.0
CET-062	Surveying II * +	3.0
CIS-160	Practical Software Application *	3.0
CET-052	Civil Construction II * +	3.0
CET-082	Civil Drafting * +	3.0
MAT-132	Trigonometry *	3.0
	SEMESTER TOTALS	**19.0**
Second Semester		
PHY-131	College Physics II * +++	4.0
CET-087	Hydraulics/Drainage * +++	3.0
CET-064	Surveying III * +++	3.0
CET-081	CAD for Civil Engineering * +++	3.0
--- ---	Social Science Electives ++ ^^	6.0
	SEMESTER TOTALS	**19.0**
	TOTAL PROGRAM HOURS	**70.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester
++ Course only offered spring and summer semester
^^ Consult Academic Advisor for appropriate course

CHILD AND FAMILY SERVICES

(AAS.CFS) ASSOCIATE IN APPLIED SCIENCE

The primary objective of the Child & Family Services program is to provide students who are interested in a career working with children and/or the family sector with the appropriate academic background and practical experience needed to successfully gain employment in a variety of job opportunities associated with this specific background. Employment opportunities include the following: parent advocate, parental model trainer, subsidy specialist, child care specialist, and family aide specialist. In addition, the program was designed and created to be a transferable option to achieve a Bachelor of Science degree in family and consumer sciences with a focus in family service. Contact an academic advisor regarding transferability options. ECE 120 and 125 must be taken the same semester.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
PSY-279	Human Dev/Life Span	3.0
ECE-100	Intro to Early Childhood Educ	3.0
ECE-110	Child Behavior Management	3.0
SPE-111	Intro to Speech Communication	3.0
SOC-280	Introduction to Sociology	3.0
	SEMESTER TOTALS	**18.0**

Second Semester		
HSP-120	Introduction to Social Work or	
HSP-101	Dynamics of Domestic Violence	3.0
PSY-274	Child Development	3.0
ENG-121	Composition II	3.0
ART-165	Fundamentals of Art or	
ART-250	Understanding Art or	
MUS-229	Understanding Music	3.0
PSY-271	Intr/Psychology	3.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
BIO-100	Bio Science I	4.0
ECE-102	Health/Safety/Nutri/Yng Child	3.0
ECE-095	Creative Activities/Children	4.0
ECE-051	Infant/Toddler Environment	3.0
PSY-278	Family Relations	3.0
	SEMESTER TOTALS	**17.0**

Second Semester		
ECE-087	Organization/Mgt of Preschools	3.0
ECE-083	Instructional Methods	3.0
ECE-120	Field Experience Seminar	1.0
SOC-282	Social Problems	3.0
HED-178	Responding to Emergencies	2.0
ECE-125	Field Experience	2.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**64.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.

CIVIL ENGINEERING TECHNOLOGY

(AAS.CET) ASSOCIATE IN APPLIED SCIENCE

This program prepares students with skills necessary for employment as a civil engineering technician with consulting engineering firms, testing laboratories, utilities and local, state and federal government agencies. Emphasis is placed on such tasks as surveying, materials testing, drafting, construction inspection, etc., associated with civil engineering. There is a strong demand for civil technicians; thus, employment opportunities are good. Civil Engineering Technology provides a balance between outdoor and indoor work which many find desirable. Surveying, field testing, construction supervision and testing are essentially outdoor work while drafting, design and laboratory testing are indoor work.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
TEC-050	Technical Math I (Module 1)	2.0
TEC-052	Technical Math II (Module 2) *	2.0
CET-060	Surveying I (Module 1)	3.0
CET-054	Soils + Aggregates (Module 2) * +	4.0
CET-051	Civil Construction I +	3.0
ENG-050	Writing for Industry	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
TEC-054	Technical Math III *	2.0
TEC-056	Technical Math IV *	2.0
CET-056	PCC Theory and Design (Module 1) * +++	2.0
CET-057	Asphalt Theory and Design (Module 2) * +++	2.0
TEC-045	Introduction to Drafting	2.0
CAD-056	CAD I	2.0
SPE-111	Intro to Speech Communication	3.0
HED-178	Responding to Emergencies or	
SFS-101	Strategies for Success	2.0
	SEMESTER TOTALS	**17.0**
Summer Term		
CET-075	Supervised Occupational Exp (Optional)	5.0
	SEMESTER TOTALS	**5.0**

SECOND YEAR

First Semester		Hours
TEC-060	Analytical Mechanic * +	4.0
CET-062	Surveying II (Module 1) * +	3.0
CIS-068	Computer Appl-Special Topics	2.0
CET-052	Civil Construction II * +	3.0
CET-082	Civil Drafting * +	3.0
--- ---	Social Science Elective	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
TEC-080	Strength/Materials * +++	4.0
CET-087	Hydraulics/Drainage * +++	3.0
CET-064	Surveying III * +++	3.0
CET-081	CAD for Civil Engineering * +++	3.0
CET-065	Data Collection GIS Mapping * +++	2.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**72.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester

CIVIL ENGINEERING TECHNOLOGY - COOP

(AAS.CETCO) ASSOCIATE IN APPLIED SCIENCE

This cooperative study option has the same course work as the regular program; however, it is extended to include 15 months of on the job experience as an integral part of the training. The student will earn college credit plus typically earn a salary during this experience. The knowledge gained during the field cooperative work experience is very good for building a resume for future employment.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
TEC-050	Technical Math I (Module 1)	2.0
CET-060	Surveying I (Module 1)	3.0
CET-054	Soils + Aggregates (Module 2) * +	4.0
CET-051	Civil Construction I +	3.0
ENG-050	Writing for Industry	3.0
TEC-052	Technical Math II (Module 2) *	2.0
	SEMESTER TOTALS	**17.0**
Second Semester		
TEC-054	Technical Math III (Module 1) *	2.0
TEC-056	Technical Math IV (Module 2) *	2.0
CET-056	PCC Theory and Design (Module 1) * +++	2.0
CET-057	Asphalt Theory and Design (Module 2) * +++	2.0
TEC-045	Introduction to Drafting	2.0
CAD-056	CAD I	2.0
SPE-111	Intro to Speech Communication	3.0
HED-178	Responding to Emergencies or	
SFS-101	Strategies for Success	2.0
	SEMESTER TOTALS	**17.0**
Summer Term		
CET-076	Supervised Occupational Exp	5.0
	SEMESTER TOTALS	**5.0**

SECOND YEAR

First Semester		Hours
CET-077	Supervised Occupational Exp *	6.0
	SEMESTER TOTALS	**6.0**
Second Semester		
CET-078	Supervised Occupational Exp *	6.0
	SEMESTER TOTALS	**6.0**
Summer Term		
CET-079	Supervised Occupational Exp *	3.0
	SEMESTER TOTALS	**3.0**

THIRD YEAR

First Semester		Hours
TEC-060	Analytical Mechanic * +	4.0
CET-062	Surveying II (Module 1) * +	3.0
CIS-068	Computer Appl-Special Topics	2.0
CET-052	Civil Construction II * +	3.0
CET-082	Civil Drafting * +	3.0
	Social Science Elective	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
TEC-080	Strength/Materials * +++	4.0
CET-087	Hydraulics/Drainage * +++	3.0
CET-064	Surveying III * +++	3.0
CET-081	CAD for Civil Engineering * +++	3.0
CET-065	Data Collection GIS Mapping * +++	2.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**87.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester

CNC OPERATOR

(NDP.CNCO) CERTIFICATE

The CNC (Computer Numerical Control) Operator certificate program is designed to provide students with the skills necessary to gain entry level employment in the metal working or wood working industry. Students learn: blueprint reading, shop mathematics, machine tool theory, inspection and quality control, and CNC operations using state of the art equipment. Career opportunities include entry-level CNC operator.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
TEC-040	Blueprint Reading/Industry I	2.5
TEC-043	Industrial Safety	1.0
TEC-050	Technical Math I	2.0
TEC-070	Properties of Metal	2.5
TEC-076	Inspection and Quality Control	3.0
MTT-050	Intro to Machining Procedures (Module 1)	3.0
CIM-050	CNC Machine Operator (Module 2) *	3.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**17.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.

CNC PROGRAMMER

(NDP.CNCP) CERTIFICATE

The CNC (Computer Numerical Control) Programmer certificate program is designed to provide students with the skills necessary to gain entry level employment in the metal working or wood working industry. Students must complete the CNC Operator certificate before enrolling in the CNC programmer certificate program. Students learn: blueprint reading, Computer Aided Drafting, shop mathematics, machine tool theory, inspection, quality control and CNC programming using state of the art equipment. Students will gain valuable hands-on experience as they complete a minimum of 225 clock hours of Supervised Occupational Experience at an industry location. Career opportunities may include entry-level CNC programmer or general manufacturing technician.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
CAD-056	CAD I	2.0
CIM-060	CNC Machining *	3.0
CIM-092	Computer-Aided Manufacturing	3.0
TEC-052	Technical Math II *	2.0
--- ---	Technical Electives	4.0
CIM-075	Supervised Occupational Experi *	3.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**17.0**

SUGGESTED ELECTIVES		
CIM-044	Industrial Robotics	2.0
WEL-056	Metal Cutting and Fabrication *	2.0
WEL-057	Welding Fundamentals	2.5
CAD-062	Introduction to Solidworks	2.0

* There are prerequisites, course requisites, or minimum placement test scores for this course.

COMMERCIAL TRUCK DRIVER TRAINING

(NDP.CTDT) CERTIFICATE

Designed for individuals with little or no commercial driving experience, this program includes everything a student needs to obtain an entry level driving position in the trucking industry.

The Lake Land Commercial Truck Driver Training Program works with many trucking companies that will pre-hire students. Truck driving is one of the few occupations where students who complete training are almost certain to go to work immediately. Most students receive several job offers prior to completion of their training.

Training is conducted at the Lake Land College Workforce Development Center, 305 Richmond Ave. East, Mattoon, Illinois. For more information about the program, job opportunities and payment options, contact the program coordinator at 1-800-789-1282 or visit the website at lakelandcollege.edu/cbi/cdl.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR		
First Semester		**Hours**
CDL-040	Commercial Truck Driver Trning	7.0
	SEMESTER TOTALS	**7.0**
	TOTAL PROGRAM HOURS	**7.0**

COMPUTER AIDED DESIGN TECHNOLOGY

(AAS.CAD) ASSOCIATE IN APPLIED SCIENCE

Computer-Aided Design (CAD) is a computer graphics based tool that allows drafters, designers and engineers to develop new products faster by automating many complex and tedious design tasks. This program will provide in-depth knowledge and experience in two- and three-dimensional design and drafting. The student will work with state-of-the-art CAD and solid modeling software and hardware. Those earning this degree will be prepared for a career as a CAD designer, mechanical designer, engineering technician or CAD technician, or Architectural drafter.

Students planning to continue their education at Eastern Illinois University or Southern Illinois University to earn a bachelor's degree in Industrial Technology, Applied Engineering, or Architecture should consult their advisor/counselor for course requirements and substitutions.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
TEC-050	Technical Math I (Module 1)	2.0
TEC-052	Technical Math II (Module 2) *	2.0
TEC-103	Engineering Graphics	3.0
CAD-056	CAD I	2.0
CIS-160	Practical Software Application *	3.0
ENG-098	Communications I	3.0
--- ---	Social Science Elective	2.0
	SEMESTER TOTALS	**17.0**

Second Semester		
TEC-054	Technical Math III *	2.0
TEC-056	Technical Math IV *	2.0
CAD-057	CAD II *	3.0
CAD-059	Special Applications of CAD * +++	3.0
CIM-060	CNC Machining * +++	3.0
--- ---	Design/Drafting Elective	3.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
CAD-058	CAD Drafting Systems * +	2.0
CIM-092	Computer-Aided Manufacturing * +	3.0
CAD-060	3D Solid Modeling * +	3.0
TEC-060	Analytical Mechanic * +	4.0
HED-178	Responding to Emergencies	2.0
--- ---	Design/Drafting Elective	2.0
	SEMESTER TOTALS	**16.0**

Second Semester		
TEC-080	Strength/Materials * +++	4.0
CAD-062	Introduction to Solidworks	2.0
MET-084	Technical Mechanisms * +++	3.0
CAD-061	3D Parametric Design * +++	3.0
--- ----	Social Science Elective	3.0
--- ---	Design/Drafting Elective	2.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**66.0**

SUGGESTED ELECTIVES

BCT-062	Architectural Drafting II * +++	4.0
BCT-076	Architectural Drafting III * +++	4.0
CET-081	CAD for Civil Engineering * +++	3.0
CET-082	Civil Drafting +	3.0
CIS-092	Adobe Illustrator	3.0
EET-056	Electronic Design/Fabrication	3.0
MTT-050	Intro to Machining Procedures	3.0
CIM-094	Computer Integrated Manf * +++	3.0
CIM-044	Industrial Robotics	2.0
CAD-075	Supervised Occupational Exp	3.0

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
+ Course only offered fall semester

COMPUTER-AIDED DRAFTING

(CRT.CAD) CERTIFICATE

Computer-Aided Drafting (CAD), also called computer- aided design, has evolved from an experimental process to a highly efficient tool in the past 20 years. CAD not only replaces most manual drafting, but can also be used for generating bills of materials, doing computerized structural analysis and controlling manufacturing machines. Several companies in the local area and worldwide, both large and small, utilize CAD for a variety of purposes. Computer-aided drafting is a unique application of computer graphics. The CAD draftsman can easily produce and modify plans, blueprints, designs, technical illustrations and schematics. Once a student completes the CAD certificate program, he or she will not only know how to operate a CAD system, but also how to set-up, customize and troubleshoot it. The many uses of CAD have opened many career opportunities in this exciting high-tech field. As a stand-alone certificate, the graduate can expect to find employment as a CAD draftsman or CAD operator. Those earning an associate in applied science degree can complete a few additional courses and earn a CAD certificate. The CAD certificate can greatly increase the opportunities for a good paying job in such fields as manufacturing, civil engineering, electronics or building construction. Students planning to continue their education can use this certificate as the beginning of a degree in similar fields.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
CAD-056	CAD I (Module 1)	2.0
CAD-058	CAD Drafting Systems (Module 2) * +	2.0
TEC-050	Technical Math I	2.0
TEC-052	Technical Math II *	2.0
ENG-098	Communications I	3.0
TEC-103	Engineering Graphics	3.0
CAD-060	3D Solid Modeling	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
CAD-057	CAD II *	3.0
CAD-059	Special Applications of CAD * +++	3.0
CIS-160	Practical Software Application *	3.0
CAD-062	Introduction to Solidworks	2.0
	Suggested Elective	3.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**31.0**

SUGGESTED ELECTIVES		
CIM-094	Computer Integrated Manf	3.0
CAD-061	3D Parametric Design	3.0
CIM-060	CNC Machining	3.0
CIM-092	Computer-Aided Manufacturing	3.0

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester

COMPUTER APPLICATIONS SPECIALIST

(NDP.CMPAP) CERTIFICATE

This certificate provides the student with the theory and the practical applications of computers relating to both business areas and personal uses. Hands-on training is emphasized. Students seeking this certificate may do so for entry level skills needed to work with existing software or for personal applications.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
CIS-160	Practical Software Application *	3.0
CIS-156	Computer Logic *	3.0
CIS-056	Advanced Software Applications *	3.0
CIS or ITT	Electives **	9.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**18.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
** Electives must be approved by the Program Coordinator

COMPUTER INTEGRATED MANUFACTURING TECHNOLOGY

(AAS.CIM) ASSOCIATE IN APPLIED SCIENCE

This program is designed to give the student a broad background in the basics of mechanics, fluid power, CAD, electronics and computer applications in manufacturing. Graduates will be prepared for the manufacturing jobs of the future in positions such as CAD/CAM operator/designer, manufacturing engineering technician, quality control technician, robotics technician, CNC operator/programmer, CIM technician or CIM equipment installer. Employment opportunities exist in many types of manufacturing industries, service industries and consulting firms. Students planning to continue their education at Eastern Illinois University or Southern Illinois University to earn a bachelor's degree in Industrial Technology or Applied Engineering should consult their advisor/counselor for course requirements and substitutions.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
TEC-050	Technical Math I (Module 1)	2.0
TEC-052	Technical Math II (Module 2) *	2.0
CAD-056	CAD I	2.0
EET-040	Basic Electronics (Module 1)	2.5
ENG-098	Communications I or	
ENG-120	Composition I	3.0
EET-050	Electric Circuits I (Module 2)	2.5
TEC-103	Engineering Graphics	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
CAD-057	CAD II *	3.0
TEC-054	Technical Math III (Module 1) *	2.0
--- ---	Social Science Elective	2.0
MTT-050	Intro to Machining Procedures	3.0
CIM-060	CNC Machining * +++	3.0
WEL-057	Welding Fundamentals	2.5
	SEMESTER TOTALS	**15.5**

SECOND YEAR

First Semester		Hours
EET-086	Prog Logic Controllers I	2.0
HED-178	Responding to Emergencies	2.0
CIM-044	Industrial Robotics +	2.0
CIM-092	Computer-Aided Manufacturing * +	3.0
IND-044	Fluid Power	3.0
TEC-070	Properties of Metal	2.5
EET-072	Industrial Control I	2.0
	SEMESTER TOTALS	**16.5**
Second Semester		
EET-087	Prog Logic Controllers II *	2.0
CAD-062	Introduction to Solidworks	2.0
MET-084	Technical Mechanisms *	3.0
CIM-094	Computer Integrated Manf * +++	3.0
--- ---	Social Science Elective	3.0
EET-075	HMI-Human Machine Interface	2.0
--- ---	Technical Elective	0.5
	SEMESTER TOTALS	**15.5**
	TOTAL PROGRAM HOURS	**64.5**

SUGGESTED ELECTIVES

CAD-058	CAD Drafting Systems * +	2.0
CAD-059	Special Applications of CAD * +++	3.0
CAD-075	Supervised Occupational Exp	3.0
EET-052	Solid State Devices	4.0
EET-056	Electronic Design/Fabrication	3.0
EET-060	Computer Hardware	3.0
EET-063	Industrial Computer Systems	3.0
IND-052	Electrical Installation Proc	2.5
MET-043	Motors and Generators	2.5
WEL-047	Shielded Metal Arc Welding I	2.0
WEL-056	Metal Cutting and Fabrication	2.0
WEL-058	Gas Metal Arc Welding I	2.0
WEL-061	Gas Tungsten Arc Welding	3.0
CAD-060	3D Solid Modeling	3.0
CAD-061	3D Parametric Design	3.0

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
+ Course only offered fall semester

COMPUTER TECHNICIAN

(CRT.COMTC) CERTIFICATE

The Computer Technician program prepares the student for entry into the broad field of computer repair and maintenance in a variety of areas such as personal computers, telecommunications, industrial and computer network systems. The program also prepares the student for A+ certification testing, test out certification, and standards of excellence set by the computer industry.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
IND-046	Concepts of Electricity	3.0
TEC-048	Applied Shop Computations	3.0
EET-056	Electronic Design/Fabrication	3.0
EET-060	Computer Hardware	3.0
TEL-051	Networking Basics +	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
CIS-079	Client Operating System *	3.0
EET-067	Computer Servicing Techniques *	3.0
ENG-050	Writing for Industry	3.0
EET-066	Network Pro	4.0
--- ---	Electonic Elective **	2.0
	SEMESTER TOTALS	**15.0**
Summer Term		
EET-077	PC Pro *	4.0
	SEMESTER TOTALS	**4.0**
	TOTAL PROGRAM HOURS	**34.0**

+ Course only offered fall semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
** Electives must be approved by the Program Coordinator

COMPUTER TROUBLESHOOTING

(NDP.CT) CERTIFICATE

This program is designed for students who already have a background in computer technology and wish to sharpen their computer tech skills while working to obtain the CompTIA A+, or test out certification.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
CIS-079	Client Operating System *	3.0
EET-060	Computer Hardware	3.0
EET-067	Computer Servicing Techniques *	3.0
EET-077	PC Pro	4.0
EET-066	Network Pro *	4.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**17.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.

COSMETOLOGY

(CRT.COS) CERTIFICATE

The Cosmetology program meets the Illinois Department of Professional Regulation standard requirements pertaining to faculty qualifications, equipment, facilities, course content and contact hours. Entrance into the program is granted fall and spring semesters following a screening process. A total of 1,500 consecutive hours is required for completion of the program. In addition to tuition and service fees, cosmetology students will purchase a uniform, manikins, cosmetology kit, and workbooks. Students will have the opportunity to attend off campus cosmetology seminars. To secure an Illinois cosmetology license, each student is required to take a computerized Illinois state board examination upon completion of the curriculum. See career track program Cosmetology Track when selecting a major. Contact the Director of Cosmetology at 217-234-5343 for more information regarding the screening process.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
SOS-050	Human Relations	2.0
COS-050	Cosmetology I	6.0
COS-052	Cosmetology II *	6.0
SPE-200	Interpersonal Communication	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
COS-054	Cosmetology III *	6.0
COS-056	Cosmetology IV *	7.0
COS-061	Computer Appl for Cosmetology	3.0
	SEMESTER TOTALS	**16.0**
Third Semester		
COS-060	Salon Management	3.0
COS-058	Cosmetology V *	7.0
	SEMESTER TOTALS	**10.0**
	TOTAL PROGRAM HOURS	**43.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.

COSMETOLOGY - TRACK

(CRT.COS.TRK)

The Cosmetology Certificate Track prepares the student for acceptance into the Cosmetology program. Applicants are instructed to begin their cosmetology application with the CRT.COS.TRK major code. Students are counseled on admission requirements into the Cosmetology program. Once accepted into the Cosmetology program, the major code will be changed to CRT.COS.

COSMETOLOGY TEACHER

(CRT.COSTR) CERTIFICATE

Illinois Cosmetology license required. Cosmetology Teacher I, II and III develops the teaching techniques for the instruction of cosmetology skills. The study of basic theory and principles of cosmetology instruction and business procedures are examined. The student will complete requirements for state board examination and licensing in the state of Illinois.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR

First Semester		Hours
COS-076	Cosmetology Teacher I +++	6.0
ENG-095	Business English or	
ENG-120	Composition I *	3.0
--- ---	Cosmetology Teacher Elective	3.0
	SEMESTER TOTALS	**12.0**
Second Semester		
COS-077	Cosmetology Teacher II * ++++	6.0
SPE-111	Intro to Speech Communication	3.0
	SEMESTER TOTALS	**9.0**
Third Semester		
COS-078	Cosmetology Teacher III * +	5.0
--- ---	Cosmetology Teacher Elective	3.0
	SEMESTER TOTALS	**8.0**
	TOTAL PROGRAM HOURS	**29.0**

SUGGESTED ELECTIVES

BUS-141	Business Communications *	3.0
BUS-251	Principles of Management	3.0
EDU-100	Introduction to Education ^^^	3.0

+++ Course only offered spring semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
++++ Course offered in summer term only
+ Course only offered fall semester
^^^ Course requires a 30-hour practicum experience in addition to classroom lecture hours

CRIMINAL JUSTICE LEADERSHIP

(NDP.CJL) CERTIFICATE

The Criminal Justice Leadership certificate is aimed at students and working criminal justice professionals who want to take on a leadership role in their careers. This certificate will instill basic leadership knowledge, including general management principles and principles in labor relations and human resources.

This certificate can be applied toward the associate in applied science degree in Law Enforcement to help expand the student's credentials and knowledge.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR		
First Semester		**Hours**
CJS-092	Police Management &Supervision	3.0
CJS-150	Intro/Criminal Just	3.0
SPE-200	Interpersonal Communication	3.0
BUS-251	Principles of Management	3.0
BUS-285	Labor Relations	3.0
BUS-290	Human Resource Management	3.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**18.0**

CROP PRODUCTION

(CRT.CROP) CERTIFICATE

The Crop Production certificate is designed to prepare students for employment in crop production situations. These situations include farming, farm management and farm operations. Program contains a minimum of eight weeks of internship at an approved location.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR

First Semester		Hours
AGR-040	Agricultural Mathematics + or	
MAT-116	General Education Math *	2.5
AGR-052	Principles of Crop Production + or	
AGR-204	Prin/Field Crop Science +++	3.0
AGR-060	Animal Husbandry + or	
AGR-206	Intro/Animal Science	3.0
AGR-050	Soils + or	
AGR-205	Intro/Soil Science	3.5
AGR-122	Farm Management +	2.5
	SEMESTER TOTALS	**14.5**
Second Semester		
AGR-049	OSHA/Ag Mach Safety +++	1.0
AGR-111	Intro to Agriculture Software +++	2.0
AGR-123	Marketing of Ag Products +++	2.5
AGR-051	Soil Fertility +++	2.5
AGR-121	Farm Business Records +++	2.5
AGR-041	Supervised Occupational Exp I +++	3.5
AGR-152	Intensive Crop Scouting +++	3.0
--- ---	Elective	1.0
	SEMESTER TOTALS	**18.0**
Summer Term		
AGR-120	Agriculture Economics ++++ or	
AGR-207	Intro/Ag Economics	3.0
AGR-053	Integrated Pest Management ++++	3.0
	SEMESTER TOTALS	**6.0**
	TOTAL PROGRAM HOURS	**38.5**

+ Course only offered fall semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
++++ Course offered in summer term only
** Electives must be approved by the Program Coordinator

SUGGESTED ELECTIVES

AGR-124 Farm Credit and Finance ** +++	2.0
AGR-084 Tractor Tune Up Repair	2.5
AGR-086 Adjusting New and Used Mach ** ++++	2.5
AGR-090 Principles of Agri Mechanics ** +	2.5
AGR-042 Supervised Ocupational Exp II ** ++++	2.5
AGR-151 GPS/Applications in Ag ** +++	3.0

DENTAL HYGIENE

(AAS.DH) ASSOCIATE IN APPLIED SCIENCE

Lake Land Partnerships

Dental Hygiene prepares the student with specialized skills necessary for employment as a dental hygienist. Emphasis is on patient treatment such as removal of calculus, stain and deposits from the teeth, prevention of oral disease, and on the hygienist's role as a dental health educator. The hygienist's services are sought by dentists, schools, prisons, hospitals, departments of health, and industry. The Dental Hygiene program is fully accredited by the American Dental Association Commission on Dental Accreditation.

Applicants seeking admission into the Dental Hygiene program for the fall semester must have a completed dental hygiene application file in the department by January 31, or the preceding business day if January 31 falls on the weekend. Applicants will be informed in writing within six weeks of the deadline on the status of their candidacy. A student information packet may be obtained from the Dental Hygiene office.

The following admission criteria and procedures are in accordance with Illinois law: In those years when there are more qualified applicants than spaces available in the program, admission is competitive and selective, using an objective formula approved by the Dental Hygiene department. This formula includes achievement in prerequisite and co-requisite courses, number of completed credit hours; ACT scores; dental assisting experience; and grade point average. The program equips students with the means to learn and apply the following core competencies required for registered Dental Hygienists.

Core Competencies:

C.1 Apply a professional code of ethics in all endeavors.
- •Clinic Policy Manual: ethical conduct, confidentiality agreement
- Preclinic I, II
- Clinic I, II, III
- Dental Hygiene IV - ethics and jurisprudence

C.2 Adhere to state and federal laws, recommendations, and regulations in the provision of dental hygiene care.
- Clinic Policy Manual: receipt, confidentiality agreement, ethical conduct
- Dental Hygiene IV - ethics and jurisprudence

C.3 Use critical thinking skills and comprehensive problem solving to identify oral health care strategies that promote patient health and wellness.
- Clinic II - case study
- Dental Hygiene II - dental hygiene diagnosis and care plan
- Clinic I, II - data collection and care plan competencies
- Dental Hygiene IV

C.4 Use evidence-based decision making to evaluate emerging technology and treatment modalities to integrate into patient dental hygiene care plans to achieve high-quality, cost effective care.
- Clinic II and Policy Manual: self-evaluation of case study
- Dental Hygiene III - journal abstracts

C.5 Assume responsibility for dental hygiene actions scientific theories and research as well as the accepted standard of care.
- DHY 081 - Perio case type
- Dental Hygiene III - journal abstracts
- Clinic I, II,III

C.6 Continuously perform self-assessment for life-long learning and professional growth.
- Dental Hygiene III - self-assessment of community
- •Dental Health Projects
- Dental Hygiene IV - portfolios
- Clinic III - Mock Board Assessment
- Preclinic II - self assessment of patient education video

C.7 Integrate accepted scientific theories and research into educational, preventive, and therapeutic oral health services.
- DHII & III and Clinic I, II, III
- Pathology
- Periodontology

C.8 Promote the values of the dental hygiene profession through service-based activities, positive community affiliations, and active involvement in local organizations.
- SADHA membership-mandatory
- Sarah Bush Lincoln Dental Services screening -enrichment opportunity
- Sarah Bush Lincoln Dental Services sealant programand restorative clinics - enrichment opportunities

C.9 Apply quality assurance mechanisms to ensure continuous commitment to accepted standard of care.
- Clinic I, II, III - chart audit with advisors
- Preclinic I, II - skill process evaluations
- Clinic I, II, III - skill competency evaluations

C.10 Communicate effectively with diverse individuals and groups, serving all persons without discrimination by acknowledging and appreciating diversity.
- Dental Hygiene III - special needs, flip chart
- Seminar II - adult learning and communication unit
- Dental Hygiene III, IV - nursing home, schools, and special needs exams/presentations; community, mentorship
- Dental Health projects
- Clinic I, II, III - Sarah Bush Lincoln Health Dental Services

C.11 Record accurate, consistent, and complete documentation of oral health services provided.
- Clinic I, II, III - quality assurance audits

C.12 Initiate a collaborative approach with all patients when developing individualized care plans that are specialized, comprehensive, culturally sensitive, and acceptable to all parties involved in the care planning.
- Patient Bill of Rights
- Preclinic II - patient care
- Clinic I, II, III - patient care

C. 13 Initiate consultations and collaborations with all relevant health care providers to facilitate optimal treatments.
- Preclinic II
- Clinic I, II, III - quality assurance audit
- Radiology

C. 14 Manage medical emergencies by using professional judgment, providing life support, and utilizing required CPR and any specialized training or knowledge.
- Dental Hygiene I, II
- Preclinic II - patient simulations
- Clinic I & II Seminar - patient simulations

Admission Process

1. Have satisfactorily graduated from a recognized high school with a grade average of "C" or better, or have a GED.
2. High school students who successfully complete Partnership for College and Career Success curriculum should consult with the Director of Dental Hygiene regarding

enrollment requirements and procedures.
3. Have successfully completed Anatomy & Physiology I (BIO 225) and Microbiology (BIO 235), Chemistry (CHM 111) with a "C" or better within the last seven years. Concepts of Chemistry (CHM 111), Anatomy & Physiology I (BIO 225) and Microbiology (BIO 235) are recommended at Lake Land College.
4. Have completed ACT test and had scores sent to Lake Land College. (ACT test scores are valid for four years)
5. Have completed college Intent to Enroll and have high school and college transcripts sent to Lake Land College Admissions & Records.
6. Have completed Lake Land College placement test, if no ACT scores.
7. Have completed Dental Hygiene Intent packet sent to the Dental Hygiene Office.
8. Completed applications will be evaluated by the Dental Hygiene Admissions Committee. Notification of acceptance will be provided to those individuals meeting the entrance criteria on a space available basis. Acceptance to the college does not ensure acceptance into the Dental Hygiene program.
9. All courses required for the Dental Hygiene program must be completed with a "C" or better and completed within the last seven years.

Acceptance Criteria

1. After acceptance into the program, a comprehensive physical examination is required.
2. After acceptance, a current Healthcare Provider CPR card is required.
3. After acceptance, submit a passport photo.
4. After acceptance, Hepatitis B immunizations are strongly recommended for all entering students.
5. After acceptance, the student must achieve grades of "C" or better in all courses to remain enrolled.
6. After acceptance, the student must submit to a background check (approximate cost $55.00) and drug screening (approximately $35.00) per program policy.
7. After acceptance, the student must submit to random drug testing periodically throughout tenure in the program per program policy.
8. The Anatomy and Physiology I & II course curriculum must include the study of a cadaver including head and neck anatomy. A 2-credit cadaver course (ADN 061) is offered should A&P courses taken at other colleges not include human cadaver.
9. A complete listing of Dental Hygiene Essential Functions can be found in the Dental Hygiene policy manual and application packet.

Cost

In addition to tuition, lab fees, and service fees, students are expected to buy their uniforms (approximately $200), dental hygiene kits and magnification loupes (approximately $3,200), and pay for other incidental expenses. Special books and miscellaneous items average about $300 per semester. Licensing examinations and learning experiences off campus will be at the expense of the student.

Program requirements may change over time. Specific degree/ graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
BIO-226	Human Ana/Phys II *	4.0
DHY-066	Dental Histology & Embryology	2.0
DHY-067	Dental Anatomy	2.0
DHY-068	Dental Hygiene I	3.0
DHY-069	Pre-Clinic Hyg I	4.5
	Dental Elective	0.5
	SEMESTER TOTALS	**16.0**
Second Semester		
HED-102	Nutrition	3.0
DHY-045	Radiology	5.0
DHY-071	Dental Hygiene II *	3.0
DHY-072	Preclinical Hygiene II *	3.5
DHY-073	Immunology	1.0
DHY-080	Pathology	3.0
	SEMESTER TOTALS	**18.5**
Summer Term		
DHY-081	Periodontology	3.0
DHY-082	Dental Hygiene Seminar	1.0
DHY-083	Clinic I *	3.0
	SEMESTER TOTALS	**7.0**

SECOND YEAR

First Semester		Hours
PSY-271	Intr/Psychology	3.0
DHY-084	Dental Hygiene Seminar II	1.0
DHY-087	Special Needs	2.0
DHY-088	Clinic II	4.0
DHY-089	Lab Proced/Dent Hyg	3.0
DHY-091	Pain Management Dental Hygiene	2.0
DHY-096	Community Dental Health	1.5
	SEMESTER TOTALS	**16.5**
Second Semester		
ENG-120	Composition I	3.0
SOC-280	Introduction to Sociology	3.0
SPE-111	Intro to Speech Communication	3.0
DHY-043	Dental Hygiene Board Review	0.5
DHY-086	Pharmacology	2.0
DHY-092	Dent Public Health	1.0
DHY-093	Ethics and Jurisprudence	3.0
DHY-094	Clinic III *	4.0
DHY-095	Seminar III	1.0
	SEMESTER TOTALS	**20.5**
	TOTAL PROGRAM HOURS	**78.5**

SUGGESTED ELECTIVES

DHY-041	Dental Terminology	0.5

* There are prerequisites, course requisites, or minimum placement test scores for this course.

DENTAL HYGIENE - TRACK

(AAS.DH.TRK)

This program prepares the student for admission into the Dental Hygiene program (AAS.DH). Students in this track are advised to enroll in courses that need to be completed prior to admission into the Dental Hygiene program. They are also advised to enroll in courses that will increase their success rate once they have entered the program. Once accepted into the Dental Hygiene program, the student's major code will be changed to AAS.DH.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

DESKTOP PUBLISHING GRAPHIC DESIGN

(AAS.DPGD) ASSOCIATE IN APPLIED SCIENCE

This program is designed to prepare graduates for careers requiring a solid knowledge of desktop publishing. Emphasis is placed on training in current graphic arts software and web page design techniques combined with the latest office technology trends. Students will design and create artwork for commercial publication and see the process through to make it press plate ready. Students may assume positions as full-time desktop publishers, graphic designers, pre-press operators, or positions involving a blend of administrative office duties and desktop publishing. Some students succeed as freelancers and open their own businesses.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
CIS-088	Adobe Photoshop *	3.0
CIS-092	Adobe Illustrator *	3.0
CIS-099	Web Page Design *	3.0
CIS-160	Practical Software Application *	3.0
SFS-101	Strategies for Success	2.0
ENG-095	Business English or	
SPE-111	Intro to Speech Communication or	
ENG-120	Composition I *	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
CIS-090	Adobe InDesign *	3.0
ITT-053	Digital Media Arts * +++	3.0
CIS-051	Designing for the Web * +++	3.0
BUS-114	Advanced Formatting *	3.0
ART-250	Understanding Art or	
ART-110	2-D Design	3.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
CIS-098	Advanced Desktop Skills * +	3.0
CIS-056	Advanced Software Applications *	3.0
CIS-058	Specialized Software Apps *	3.0
CIS-049	Content Management Systems * +	2.0
BUS-247	Principles of Marketing	3.0
BUS-141	Business Communications *	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
BUS-060	Automated Office Procedures (Module 1) * +++	3.0
BUS-079	Professional Development (Module 1) +++	3.0
CIS-047	Graphic Design Capstone (Module 2) * +++	3.0
BUS-094	Business Math	3.0
SOC-280	Introduction to Sociology or	
PSY-271	Intro to Psychology	3.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**64.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
+ Course only offered fall semester

DESKTOP PUBLISHING GRAPHIC DESIGN

(CRT.DPGD) CERTIFICATE

This certificate provides skills and knowledge to prepare students for entry-level positions in desktop publishing and web page design. With a knowledge of keyboarding, graphic arts software and web page design, graduates may fill various positions in the desktop publishing, web page design and graphic design fields.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR

First Semester		Hours
CIS-088	Adobe Photoshop *	3.0
CIS-092	Adobe Illustrator *	3.0
CIS-099	Web Page Design *	3.0
CIS-160	Practical Software Application *	3.0
BUS-114	Advanced Formatting *	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
CIS-090	Adobe InDesign *	3.0
CIS-051	Designing for the Web * +++	3.0
CIS-058	Specialized Software Apps *	3.0
ENG-095	Business English	3.0
	SEMESTER TOTALS	**12.0**

SECOND YEAR

First Semester		Hours
CIS-098	Advanced Desktop Skills * +	3.0
BUS-141	Business Communications *	3.0
BUS ---	Any BUS Business Class or	
CIS ---	CIS Computer Class	1.0
	SEMESTER TOTALS	**7.0**
	TOTAL PROGRAM HOURS	**34.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
+ Course only offered fall semester

E-COMMERCE MARKETING

(CRT.EMKT) CERTIFICATE

The certificate in E-Commerce Marketing trains students to effectively market an organization and its products through its website and social media presence. The program will highlight strategies for drawing more traffic to a firm's website, increasing online revenues, and enhancing the organization's reputation. All courses satisfactorily completed in this certificate program will apply to the associate in applied science degree with a major in marketing or management.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
CIS-099	Web Page Design *	3.0
BUS-142	Introduction to Business	3.0
CIS-160	Practical Software Application *	3.0
BUS-247	Principles of Marketing	3.0
	SEMESTER TOTALS	**12.0**
Second Semester		
BUS-090	Prin of Retailing ++++	3.0
BUS-091	Prin of Advertising ++++	3.0
BUS-134	Principles of E-Commerce	3.0
CIS-100	Advanced Web Page Design *	3.0
	SEMESTER TOTALS	**12.0**
	TOTAL PROGRAM HOURS	**24.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
++++ Course offered in summer term only

EARLY CHILDHOOD CARE AND EDUCATION

(AAS.ECE) ASSOCIATE IN APPLIED SCIENCE

The Early Childhood Care and Education program provides the academic background and practical experience necessary to operate a private, home day care and teach or direct in child care facilities. Additional employment opportunities include nursery schools, Head Start programs, and paraprofessional teacher's aide in primary grades. The program is especially suited to individuals who enjoy working and teaching young children and to those having a caring and patient personality. A "C" average in required Early Childhood Care and Education core classes must be maintained by students prior to enrolling in ECE 125.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
ENG-098	Communications I or	
ENG-120	Composition I	3.0
ECE-100	Intro to Early Childhood Educ	3.0
ECE-110	Child Behavior Management	3.0
BIO-120	Natural Science or	
BIO-100	Bio Science I	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
ECE-081	Early Childhood Clinical	1.0
ART-165	Fundamentals of Art or	
ART-250	Understanding Art or	
MUS-229	Understanding Music	3.0
EDU-190	Introduction/Special Education	3.0
PSY-271	Intr/Psychology	3.0
SPE-111	Intro to Speech Communication	3.0
--- ---	Elective	2.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
ECE-095	Creative Activities/Children	4.0
ECE-051	Infant/Toddler Environment	3.0
SOC-280	Introduction to Sociology	3.0
PSY-274	Child Development	3.0
ECE-102	Health/Safety/Nutri/Yng Child	3.0
HED-178	Responding to Emergencies	2.0
	SEMESTER TOTALS	**18.0**
Second Semester		
ECE-083	Instructional Methods	3.0
ECE-087	Organization/Mgt of Preschools	3.0
PED-172	Bsc Act Elem/Sec Child	2.0
ECE-120	Field Experience Seminar (Module 2) *	1.0
EDU-103	Teaching/Learning W/Technology	3.0
ECE-125	Field Experience *	4.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**64.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.

ELECTRONIC CONTROL TECHNICIAN

(CRT.ECT) CERTIFICATE

The Electronic Communication Certificate will provide training in cabling and fiber optics, analog and digital electronics, computers, data communication with basic routing skills. The student will receive hands-on training on wide range of electronic equipment.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
EET-072	Industrial Control I *	2.0
EET-040	Basic Electronics	2.5
EET-050	Electric Circuits I *	2.5
TEC-050	Technical Math I	2.0
TEC-052	Technical Math II *	2.0
EET-056	Electronic Design/Fabrication	3.0
EET-086	Prog Logic Controllers I * +	2.0
TEC---	Technical Elective	2.0
	SEMESTER TOTALS	**18.0**
Second Semester		
EET-052	Solid State Devices *	4.0
EET-075	HMI-Human Machine Interface *	2.0
EET-087	Prog Logic Controllers II *	2.0
CAD-056	CAD I	2.0
ENG-050	Writing for Industry	3.0
EET-066	Network Pro	4.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**35.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester

ELECTRONICS ENGINEERING TECHNOLOGY

(AAS.EET) ASSOCIATE IN APPLIED SCIENCE

The Electronic Engineering Technology program is designed to prepare the student for transfer to one of Indiana State University's or Southern Illinois University's electronic degree programs. Students completing the Electronic Engineering Technology degree program have the skills and knowledge to be employed in many different electronic fields. This program teaches a broad range of electronics such as radio frequency communication, microprocessors, digital and linear electronics.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
EET-040	Basic Electronics (Module 1)	2.5
EET-050	Electric Circuits I (Module 2) *	2.5
ENG-120	Composition I *	3.0
CAD-056	CAD I (Module 1)	2.0
EET-056	Electronic Design/Fabrication +	3.0
MAT-130	College Algebra *	3.0
HED-178	Responding to Emergencies	2.0
	SEMESTER TOTALS	**18.0**
Second Semester		
EET-076	Digital Logic * +++	3.0
EET-052	Solid State Devices * +++	4.0
ENG-121	Composition II *	3.0
--- ---	Social Science Elective	2.0
--- ---	Technical Elective	3.0
MAT-132	Trigonometry *	3.0
	SEMESTER TOTALS	**18.0**

SECOND YEAR

First Semester		Hours
EET-078	Linear Electronics * +	3.0
EET-072	Industrial Control I (Module 1) * +	2.0
EET-086	Prog Logic Controllers I *Module 2) * +	2.0
PHY-130	College Physics I * +	4.0
EET-081	Microcontroller Applications * +	3.0
EET-048	Digital Circuits +	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
EET-080	R.F. Communications * +++	3.0
EET-085	Electronic Projects *	2.0
PHY-131	College Physics II * +++	4.0
PLC-040	Fund of Instrumentation ++	3.0
--- ---	Social Science Elective	3.0
--- ---	Technical Elective	2.5
	SEMESTER TOTALS	**17.5**
	TOTAL PROGRAM HOURS	**70.5**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester
++ Course only offered spring and summer semester

ELECTRONICS SYSTEMS SPECIALIST

(AAS.EETES) ASSOCIATE IN APPLIED SCIENCE

The Electronic Systems Specialist program prepares the student for employment in the electronics field of choice utilizing a hands-on approach. The graduate may chose classes in the electronics fields of computers, networking, telecommunications, or manufacturing. Electronics Systems Specialist applies their knowledge of electronics by assisting electronics engineers, performing test on new equipment designs, doing field service work or performing maintenance and repair on sophisticated electronic systems such as robotics, computers, and industrial controls.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
CAD-056	CAD I	2.0
EET-040	Basic Electronics	2.5
EET-050	Electric Circuits I *	2.5
--- ---	Technical Elective	3.0
EET-056	Electronic Design/Fabrication	3.0
TEC-050	Technical Math I	2.0
TEC-052	Technical Math II *	2.0
	SEMESTER TOTALS	**17.0**

Second Semester		
SPE-111	Intro to Speech Communication	3.0
--- ---	Technical Elective	3.0
HED-178	Responding to Emergencies or	
SFS-101	Strategies for Success	2.0
EET-076	Digital Logic *	3.0
EET-052	Solid State Devices *	4.0
TEC-054	Technical Math III *	2.0
	SEMESTER TOTALS	**17.0**

SECOND YEAR

First Semester		Hours
--- ---	Social Science Elective	3.0
EET-048	Digital Circuits *	3.0
EET-072	Industrial Control I *	2.0
EET-086	Prog Logic Controllers I *	2.0
EET-081	Microcontroller Applications *	3.0
EET-078	Linear Electronics *	3.0
	SEMESTER TOTALS	**16.0**

Second Semester		
EET-080	R.F. Communications *	3.0
EET-085	Electronic Projects *	2.0
--- ---	Technical Elective	4.5
PLC-040	Fund of Instrumentation	3.0
ENG-050	Writing for Industry	3.0
	SEMESTER TOTALS	**15.5**
	TOTAL PROGRAM HOURS	**65.5**

* There are prerequisites, course requisites, or minimum placement test scores for this course.

EMERGENCY MEDICAL SERVICES

(NDP.EMS) CERTIFICATE

The certificate in Emergency Medical Services program includes classroom, skills laboratory, hospital, and field clinical experiences.

The student is awarded a certificate upon successful completion of the program and will be eligible to take the Illinois Department of Public Health EMT- Basic licensing examination or the National Registry of EMTs examination.

Completion of the certificate in Emergency Medical Services does not guarantee licensure. There are some specific conditions for which the Department of Public Health may refuse licensure. Please consult with the Emergency Services Director to avoid license application hindrances.

This program is conducted in cooperation with Sarah Bush Lincoln Health Center and is approved by the Illinois Department of Public Health and Highway Safety. Students must complete a file with the Lake Land College Emergency Services office with the following items: current AHA BLS CPR for Healthcare Provider certification card, current driver's license or Illinois state picture ID, immunizations as required by The Illinois Department of Public Health for Healthcare Providers, high school diploma or GED equivalent, physical exam, background check, and drug test.

Program graduates are prepared for career opportunities in the field of emergency medical services, including urban and rural ambulance services and/or fire departments; industrial settings, clinical settings.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR		
First Semester		**Hours**
EMS-050	Emergency Medical Tech-Basic	6.0
	SEMESTER TOTALS	**6.0**
	TOTAL PROGRAM HOURS	**6.0**

ENTREPRENEURSHIP

(NDP.ENTRE) CERTIFICATE

This program prepares students for ownership of their own business. Courses have been carefully chosen to give the student the solid informational base needed to succeed in business ownership. All courses satisfactorily completed in this certificate program will apply to the associate in applied science degree with a major in management.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
BUS-251	Principles of Management or	
BUS-290	Human Resource Management *	3.0
BUS-089	Small Business Management	3.0
BUS-090	Prin of Retailing ++++	3.0
BUS-200	Legal Environ/Business	3.0
BUS-095	Fundamentals of Accounting or	
BUS-096	Federal Tax Accounting	3.0
BUS-247	Principles of Marketing	3.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**18.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
++++ Course offered in summer term only

ESTHETICS

(CRT.ESTH) CERTIFICATE

The Esthetics program meets the Illinois Department of Professional Regulation standard requirements pertaining to faculty qualifications, equipment, facilities, course content and contact hours. Entrance into the Esthetics program is fall semester only following a screening process. A total of 750 consecutive hours is required for completion of the program. In addition to tuition and service fees, Esthetic students will purchase uniforms, an esthetics kit and workbooks. To secure a state license as an esthetician, each student is required to take a written Illinois state board examination upon completion of the curriculum.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
COS-061	Computer Appl for Cosmetology	3.0
EST-041	Esthetics I +	6.5
EST-042	Esthetics II * +	6.5
	SEMESTER TOTALS	**16.0**
Second Semester		
EST-043	Esthetics III * +++	6.0
EST-044	Esthetics IV * +++	6.0
COS-060	Salon Management	3.0
	SEMESTER TOTALS	**15.0**
Summer Term		
EST-045	Esthetics V * ++++	6.0
	SEMESTER TOTALS	**6.0**
	TOTAL PROGRAM HOURS	**37.0**

+ Course only offered fall semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
++++ Course offered in summer term only

ESTHETICS-TRACK

(CRT.ESTH.TRK)

The Esthetics Certificate Track prepares the student for acceptance into the Esthetics program. Applicants are instructed to complete an Intent to Enroll with the CRT.ESTH.TRK major code. Students are counseled on admission requirements into the Esthetics program. Once accepted into the Esthetics program, the major code will be changed to CRT.ESTH.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRE SCIENCE TECHNOLOGY

(AAS.FST) ASSOCIATE IN APPLIED SCIENCE

The Associate Degree in Fire Science Technology is a two-year program based on a model created by the Fire and Emergency Services Higher Education (FESHE) network of Fire Science Programs. Lake Land College is a FESHE recognized Institution.

The National Fire Academy has advocated standardizing education for firefighters and fire officers across the nation. FESHE's mission is: "To provide an organization of post-secondary institutions to promote higher education and to enhance the recognition of the Fire and Emergency Services as Professions to reduce loss of life and property from fire and other hazards."

This program will prepare the student for employment in the fire service field. The program trains the student to consider factors such as, building construction, strategy and tactics, fire prevention, and fire investigation. All of Lake Land College's Fire Science courses are online or hybrid format to accommodate working students who may not have the flexibility to attend day or evening classes.

Lake Land College has articulation agreements with Southern Illinois University/Carbondale, and Western Illinois University for fire services bachelor degree programs. All Lake Land College courses are transferrable with full credit to SIU-C and WIU.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
FST-040	Fire Behavior and Combustion	3.0
FST-041	Principles/Emergency Services	3.0
FST-042	Occupational Safety/Health	3.0
ENG-120	Composition I *	3.0
MAT-116	General Education Math *	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
FST-043	Building Construction	3.0
FST-044	Fire Prevention	3.0
FST-045	Fire Investigation I	3.0
ENG-121	Composition II *	3.0
SPE-111	Intro to Speech Communication	3.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
FST-070	Fire Protection Systems	3.0
FST-046	Fire Service Safety & Survival	3.0
CHM-111	Concepts of Chemistry	4.0
SOC-280	Introduction to Sociology	3.0
--- ---	Art Elective	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
--- ---	Fire Science Elective	3.0
FST-072	Legal Aspects of Fire Service	3.0
FST-073	Fire Administration I *	3.0
FST-074	Fire Investigation II *	3.0
BIO-100	Bio Science I	4.0
PSY-271	Intr/Psychology	3.0
	SEMESTER TOTALS	**19.0**
	TOTAL PROGRAM HOURS	**65.0**

SUGGESTED ELECTIVES

FST-071	FST Hydraulics/Water Supply	3.0
EMS-050	Emergency Medical Tech-Basic	6.0
FST-081	Fire Strategy and Tactics	3.0
FST-075	Fire Administration II	3.0
FST-082	Fire Service Instructor I	3.0
ART-110	2-D Design	3.0
ART-111	3-D Design	3.0
ART-240	Art and Gender *	3.0
ART-250	Understanding Art	3.0
ENG-224	Creative Writing - Poetry *	3.0
MUS-229	Understanding Music	3.0

* There are prerequisites, course requisites, or minimum placement test scores for this course.

GEOSPATIAL TECHNOLOGY

(NDP.GIS) CERTIFICATE

The Geospatial certificate program will provide students with the knowledge and practical skills necessary to develop and manage Geographic Information projects and to interpret and implement GIS as a decision support system. This certificate will enable students 1) to develop substantial theoretical and practical competencies relating to GIS; 2) develop foundational understanding and skills in the use of industry standard software; and 3) be able to demonstrate to employers the ability to perform GIS tasks at the technician level.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
AGR-151	GPS/Applications in Ag + ^^ or	
CET-065	Data Collection GIS Mapping * +++	2.0
GIS-090	Intro to Geospatial Technology or	
ESC-106	Intro Geographic Info Systems ^^	4.0
GEO-140	World Geography	3.0
	SEMESTER TOTALS	**9.0**
Second Semester		
GIS-091	Advanced GIS +++	3.0
CIS ---	Information Technology Elective ^^	2.0
	SEMESTER TOTALS	**5.0**
Summer Term		
GIS-095	Geospatial Tech Internship ** ++++	3.0
	SEMESTER TOTALS	**3.0**
	TOTAL PROGRAM HOURS	**17.0**

SUGGESTED ELECTIVES	
CAD --- Computer Aided Drafting Elective	1.0
CIS-052 Visual Basic * +	4.0
CIS-095 Database Management *	3.0
CIS-156 Computer Logic *	3.0
CIS-160 Practical Software Application	3.0

+ Course only offered fall semester
^^ Consult Academic Advisor for appropriate course
* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
** Electives must be approved by the Program Coordinator
++++ Course offered in summer term only

HEATING, VENTILATING, AIR CONDITIONING AND REFRIGERATION

(CRT.HVAC) CERTIFICATE

This program prepares students to gain entry level employment in this industry. Students learn skills in installation, repair, and maintenance of commercial and residential heating and cooling units.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
TEC-048	Applied Shop Computations	3.0
HVC-062	Intro to HVACR Electricity +	4.0
IND-043	Refrigeration Fundamentals +	4.0
HVC-066	Refrigeration II +	4.0
	SEMESTER TOTALS	**15.0**
Second Semester		
HVC-068	Air Conditioning I +++	3.0
HVC-070	Air Conditioning II +++	5.0
HVC-072	Heat Generating Systems +++	5.0
TEC-059	Energy Management +++	2.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**30.0**

+ Course only offered fall semester
+++ Course only offered spring semester

HORTICULTURE

(AAS.HRT) ASSOCIATE IN APPLIED SCIENCE

The Horticulture degree is for students seeking advanced training within the green industry including greenhouse management, golf course management, landscape design, nursery management, and landscape construction. The 20 weeks of internship allow the student to specialize within the production or landscape areas.

Note: Those students that are considering transferring to a university should contact their advisor as soon as possible.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
HRT-201	Introduction to Horticulture +	3.0
HRT-061	Woody Plants Identification +	3.0
HRT-082	Landscape Construction & Maint +	3.0
AGR-040	Agricultural Mathematics or higher + or	
MAT-116	General Education Math *	2.5
AGR-050	Soils + or	
AGR-205	Intro/Soil Science	3.5
	SEMESTER TOTALS	**15.0**
Second Semester		
HRT-063	Evergreen/Vines & Ground Cover +++	3.0
HRT-071	Herbaceous Landscape Plants +++	3.0
HRT-091	Supervised Occupational Exp I *	3.5
AGR-111	Intro to Agriculture Software +++ or	
AGR-112	Computer Applic/Agriculture +++	2.0
--- ---	HRT or AGR Elective **	2.0
HED-178	Responding to Emergencies	2.0
	SEMESTER TOTALS	**15.5**
Summer Term		
AGR-120	Agriculture Economics ++++ or	
AGR-207	Intro/Ag Economics	3.0
HRT-072	Herbaceous Landscape Plants II ++++	3.0
HRT-092	Supervised Occupational Exp II *	2.5
	SEMESTER TOTALS	**8.5**

SECOND YEAR

First Semester		Hours
HRT-076	Greenhouse Mgt and Production +	3.0
HRT-081	Landscape Design +	3.0
BIO-100	Bio Science I	4.0
ENG-120	Composition I * or	
ENG-098	Communications I +	3.0
PSY-271	Intr/Psychology or	
SOS-050	Human Relations	2.0
	SEMESTER TOTALS	**15.0**
Second Semester		
HRT-066	Turf Management +++	3.0
HRT-093	Sup Occupational Exp III *	3.0
--- ---	HRT or AGR Elective **	2.0
POS-160	American National Government	3.0
SPE-111	Intro to Speech Communication	3.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**68.0**

SUGGESTED ELECTIVES

HRT-083	Landscape Des II-Layout/Graph +++	3.0
AGR-141	Introduction to Agroecology +++	3.0
AGR-143	Organic Crop Production +++	3.0
AGR-145	Biological Pest Management	3.0
AGR-132	Retailing/Agri Supplies +++	2.0
AGR-133	Agriculture Salesmanship +++	2.5
AGR-053	Integrated Pest Management ++++	3.0
AGR-051	Soil Fertility +++	2.5

+ Course only offered fall semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
** Electives must be approved by the Program Coordinator
++++ Course offered in summer term only

HORTICULTURE

(CRT.HRT) CERTIFICATE

The Horticulture certificate is designed for students seeking educational training and employment in the industries of landscaping, greenhouse management, plant propagation, nursery management, golf course management and turf grass management. In addition to 33 credit hours of specialized courses in horticulture, business and soil science, students will receive 12 weeks of supervised occupational experience at approved internship locations.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
HRT-201	Introduction to Horticulture +	3.0
HRT-061	Woody Plants Identification +	3.0
HRT-076	Greenhouse Mgt and Production +	3.0
HRT-082	Landscape Construction & Maint +	3.0
AGR-040	Agricultural Mathematics +	2.5
AGR-050	Soils + or	
AGR-205	Intro/Soil Science	3.5
	SEMESTER TOTALS	**18.0**
Second Semester		
HRT-063	Evergreen/Vines & Ground Cover +++	3.0
HRT-066	Turf Management +++	3.0
HRT-081	Landscape Design +++	3.0
HRT-071	Herbaceous Landscape Plants +++	3.0
HRT-091	Supervised Occupational Exp I	3.5
	SEMESTER TOTALS	**15.5**
Summer Term		
HRT-072	Herbaceous Landscape Plants II ++++	3.0
HRT-092	Supervised Occupational Exp II	2.5
	SEMESTER TOTALS	**5.5**
	TOTAL PROGRAM HOURS	**39.0**

\+ Course only offered fall semester
+++ Course only offered spring semester
++++ Course offered in summer term only

HUMAN SERVICES-BUSINESS

(AAS.HSP.BUS) ASSOCIATE IN APPLIED SCIENCE

The Human Services program is designed to prepare students with skills to work in a variety of settings such as homes for the developmentally disabled, activity-psychosocial areas of senior residential homes, special education schools, state agencies, correctional centers, probation offices, social service areas of hospitals and mental health facilities. Classroom training and field experience prepare graduates of the Human Services program to provide greatly needed services to people who require assistance.

To be eligible for the field experience the following must be completed: 30 semester hours of the required curriculum, 2.0 GPA, Foundations of Human Services HSP103 and Social Welfare HSP 122. This program of study can lead to a bachelor's degree in family and consumer science, sociology, psychology, health studies or social work. Students should consult with an advisor during their first year regarding specific transfer curricula and electives course work to facilitate a transfer.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
PSY-271	Intr/Psychology	3.0
HSP-103	Foundations of Human Services	3.0
--- ---	Mathematics (IAI M) or	
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
HED-200	Principles of Health	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
ENG-121	Composition II * or	
SPE-111	Intro to Speech Communication	3.0
HSP-122	Social Welfare	3.0
CIS-160	Practical Software Application *	3.0
HED-178	Responding to Emergencies	2.0
--- ---	Area of Concentration	3.0
	SEMESTER TOTALS	**14.0**
Summer Term		
HSP-053	Work Experience Seminar I *	1.0
HSP-054	Field Experience I *	2.0
--- ---	Area of Concentration	3.0
	SEMESTER TOTALS	**6.0**

SECOND YEAR

First Semester		Hours
HSP-055	Work Experience Seminar II *	1.0
HSP-056	Field Experience II *	2.0
--- ---	Area of Concentration	6.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
Option A		
HSP-057	Work Experience Seminar III *	1.0
HSP-058	Field Experience III *	2.0
--- ---	Area of Concentration	3.0
--- ---	Electives	8.0
Option B		
--- ---	Area of Concentration	3.0
--- ---	Electives	11.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

PHI-280	Ethics	3.0
ECO-130	The American Economy	3.0
SPE-200	Interpersonal Communication	3.0
SPE-213	Intro/Group Discussion *	3.0
SPE-220	Persuasive Speaking *	3.0
SFS-101	Strategies for Success	2.0
BUS-141	Business Communications *	3.0
HSP-065	Intro to Substance Abuse	3.0
ENG-110	Manual Comm-Deaf	3.0
ENG-111	Advanced Signing *	3.0
POS-160	American National Government	3.0
ECE-052	Heads Up! Reading	3.0
CIS-101	Internet Systems/Applications	2.0
CIS-090	Adobe InDesign	3.0
CIS-054	PowerPoint	2.0
CIS-099	Web Page Design	3.0
CIS-094	Excel	2.0
CIS-093	Access	2.0
CIS-055	Word	2.0

AREA OF CONCENTRATION

BUS-151	Financial Accounting *	3.0
BUS-152	Managerial Accounting *	3.0
BUS-151	Financial Accounting *	3.0
HSP-120	Introduction to Social Work	3.0
CHM-151	General Chemistry II *	4.0
BUS-151	Financial Accounting *	3.0

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* There are prerequisites, course requisites, or minimum placement test scores for this course.

HUMAN SERVICES - CRIMINAL JUSTICE

(AAS.HSP.CRJ) ASSOCIATE IN APPLIED SCIENCE

The Human Services program is designed to prepare students with skills to work in a variety of settings such as homes for the developmentally disabled, activity-psychosocial areas of senior residential homes, special education schools, state agencies, correctional centers, probation offices, social service areas of hospitals and mental health facilities. Classroom training and field experience prepare graduates of the Human Services program to provide greatly needed services to people who require assistance.

To be eligible for the field experience the following must be completed: 30 semester hours of the required curriculum, 2.0 GPA, Foundations of Human Services HSP 103 and Social Welfare HSP 122. This program of study can lead to a bachelor's degree in family and consumer science, sociology, psychology, health studies or social work. Students should consult with an advisor during their first year regarding specific transfer curricula and electives course work to facilitate a transfer.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
PSY-271	Intr/Psychology	3.0
HSP-103	Foundations of Human Services	3.0
--- ---	Mathematics (IAI M) or	
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
HED-200	Principles of Health	3.0
	SEMESTER TOTALS	**15.0**

Second Semester		
ENG-121	Composition II * or	
SPE-111	Intro to Speech Communication	3.0
HSP-122	Social Welfare	3.0
CIS-160	Practical Software Application	3.0
HED-178	Responding to Emergencies	2.0
--- ---	Area of Concentration	3.0
	SEMESTER TOTALS	**14.0**

Summer Term		
HSP-053	Work Experience Seminar I *	1.0
HSP-054	Field Experience I *	2.0
--- ---	Area of Concentration	3.0
	SEMESTER TOTALS	**6.0**

SECOND YEAR

First Semester		Hours
HSP-055	Work Experience Seminar II *	1.0
HSP-056	Field Experience II *	2.0
--- ---	Area of Concentration	6.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**15.0**

Second Semester		
Option A		
HSP-057	Work Experience Seminar III *	1.0
HSP-058	Field Experience III *	2.0
--- ---	Area of Concentration	3.0
--- ---	Electives	8.0
Option B		
--- ---	Area of Concentration	3.0
--- ---	Electives	11.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

PHI-280	Ethics	3.0
ECO-130	The American Economy	3.0
SPE-200	Interpersonal Communication	3.0
SPE-213	Intro/Group Discussion *	3.0
SPE-220	Persuasive Speaking *	3.0
SFS-101	Strategies for Success	2.0
BUS-141	Business Communications *	3.0
HSP-065	Intro to Substance Abuse	3.0
ENG-110	Manual Comm-Deaf	3.0
ENG-111	Advanced Signing *	3.0
POS-160	American National Government	3.0
ECE-052	Heads Up! Reading	3.0
CIS-101	Internet Systems/Applications	2.0
CIS-090	InDesign	3.0
CIS-054	PowerPoint	2.0
CIS-099	Web Page Design	3.0
CIS-094	Excel	2.0
CIS-093	Access	2.0
CJS-055	Police Supervision	1.0

AREA OF CONCENTRATION

CJS-166	Corrections	3.0
CJS-152	Criminal Investigation I	3.0
CJS-160	Criminal Evidence & Procedure *	3.0
CJS-158	Juvenile Justice	3.0
CJS-150	Intro/Criminal Just	3.0
CJS-156	Criminal Law	3.0
HSP-120	Introduction to Social Work	3.0

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HUMAN SERVICES-DIETETICS

(AAS.HSP.DIT) ASSOCIATE IN APPLIED SCIENCE

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To be eligible for the field experience the following must be completed: 30 semester hours of the required curriculum, 2.0 GPA, Foundations of Human Services HSP103 and Social Welfare HSP 122. This program of study can lead to a bachelor's degree in family and consumer science, sociology, psychology, health studies or social work. Students should consult with an advisor during their first year regarding specific transfer curricula and electives course work to facilitate a transfer.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
PSY-271	Intr/Psychology	3.0
HSP-103	Foundations of Human Services	3.0
--- ---	Mathematics (IAI M) or	
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
HED-200	Principles of Health	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
ENG-121	Composition II * or	
SPE-111	Intro to Speech Communication	3.0
HSP-122	Social Welfare	3.0
CIS-160	Practical Software Application *	3.0
HED-178	Responding to Emergencies	2.0
--- ---	Area of Concentration	3.0
	SEMESTER TOTALS	**14.0**
Summer Term		
HSP-053	Work Experience Seminar I *	1.0
HSP-054	Field Experience I *	2.0
--- ---	Area of Concentration	3.0
	SEMESTER TOTALS	**6.0**

SECOND YEAR

First Semester		Hours
HSP-055	Work Experience Seminar II *	1.0
HSP-056	Field Experience II *	2.0
--- ---	Area of Concentration	6.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
Option A		
HSP-057	Work Experience Seminar III *	1.0
HSP-058	Field Experience III *	2.0
--- ---	Area of Concentration	3.0
--- ---	Electives	8.0
Option B		
--- ---	Area of Concentration	3.0
--- ---	Electives	11.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

PHI-280	Ethics	3.0
ECO-130	The American Economy	3.0
SPE-200	Interpersonal Communication	3.0
SPE-213	Intro/Group Discussion *	3.0
SPE-220	Persuasive Speaking *	3.0
SFS-101	Strategies for Success	2.0
BUS-141	Business Communications *	3.0
HSP-065	Intro to Substance Abuse	3.0
ENG-110	Manual Comm-Deaf	3.0
ENG-111	Advanced Signing *	3.0
POS-160	American National Government	3.0
ECE-052	Heads Up! Reading	3.0
CIS-101	Internet Systems/Applications	2.0
CIS-090	Adobe InDesign	3.0
CIS-054	PowerPoint	2.0
CIS-099	Web Page Design	3.0
CIS-094	Excel	2.0
CIS-093	Access	2.0
CIS-055	Word	2.0

AREA OF CONCENTRATION

HED-046	Food Service Sanitation	0.5
HED-102	Nutrition	3.0
BUS-200	Legal Environ/Business	3.0
ECO-231	Principles of Econ I (Macro)	3.0
PSY-279	Human Dev/Life Span	3.0

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* There are prerequisites, course requisites, or minimum placement test scores for this course.

HUMAN SERVICES - EDUCATION

(AAS.HSP.EDU) ASSOCIATE IN APPLIED SCIENCE

The Human Services program is designed to prepare students with skills to work in a variety of settings such as homes for the developmentally disabled, activity-psychosocial areas of senior residential homes, special education schools, state agencies, correctional centers, probation offices, social service areas of hospitals and mental health facilities. Classroom training and field experience prepare graduates of the Human Services program to provide greatly needed services to people who require assistance.

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Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
PSY-271	Intr/Psychology	3.0
HSP-103	Foundations of Human Services	3.0
--- ---	Mathematics (IAI M) or	
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
HED-200	Principles of Health	3.0
	SEMESTER TOTALS	**15.0**

Second Semester		
ENG-121	Composition II * or	
SPE-111	Intro to Speech Communication	3.0
HSP-122	Social Welfare	3.0
CIS-160	Practical Software Application	3.0
HED-178	Responding to Emergencies	2.0
--- ---	Area of Concentration	3.0
	SEMESTER TOTALS	**14.0**

Summer Term		
HSP-053	Work Experience Seminar I *	1.0
HSP-054	Field Experience I *	2.0
--- ---	Area of Concentration	3.0
	SEMESTER TOTALS	**6.0**

SECOND YEAR

First Semester		Hours
HSP-055	Work Experience Seminar II *	1.0
HSP-056	Field Experience II *	2.0
--- ---	Area of Concentration	6.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**15.0**

Second Semester		
Option A		
HSP-057	Work Experience Seminar III *	1.0
HSP-058	Field Experience III *	2.0
--- ---	Area of Concentration	3.0
--- ---	Electives	8.0
Option B		
--- ---	Area of Concentration	3.0
--- ---	Electives	11.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

PHI-280	Ethics	3.0
ECO-130	The American Economy	3.0
SPE-200	Interpersonal Communication	3.0
SPE-213	Intro/Group Discussion *	3.0
SPE-220	Persuasive Speaking *	3.0
SFS-101	Strategies for Success	2.0
BUS-141	Business Communications *	3.0
HSP-065	Intro to Substance Abuse	3.0
ENG-110	Manual Comm-Deaf	3.0
ENG-111	Advanced Signing *	3.0
POS-160	American National Government	3.0
ECE-052	Heads Up! Reading	3.0
CIS-101	Internet Systems/Applications	2.0
CIS-090	InDesign	3.0
CIS-054	PowerPoint	2.0
CIS-099	Web Page Design	3.0
CIS-094	Excel	2.0
CIS-093	Access	2.0
CIS-055	Word	2.0

AREA OF CONCENTRATION

EDU-100	Introduction to Education ^^^	3.0
EDU-103	Teaching/Learning W/Technology *	3.0
EDU-190	Introduction/Special Education	3.0
EDU-200	Educational Psychology	3.0
ECE-083	Instructional Methods	3.0
ECE-110	Child Behavior Management	3.0
ECE-095	Creative Activities/Children	4.0
PED-172	Bsc Act Elem/Sec Child	2.0
PSY-274	Child Development	3.0
EDU-210	Diversity/Schools & Societies	3.0
HSP-120	Introduction to Social Work	3.0

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* There are prerequisites, course requisites, or minimum placement test scores for this course.
^^^ Course requires a 30-hour practicum experience in addition to classroom lecture hours

HUMAN SERVICES - HEALTH

(AAS.HSP.HEA) ASSOCIATE IN APPLIED SCIENCE

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Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
PSY-271	Intr/Psychology	3.0
HSP-103	Foundations of Human Services	3.0
--- ---	Mathematics (IAI M) or	
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
HED-200	Principles of Health	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
ENG-121	Composition II * or	
SPE-111	Intro to Speech Communication	3.0
HSP-122	Social Welfare	3.0
CIS-160	Practical Software Application	3.0
HED-178	Responding to Emergencies	2.0
--- ---	Area of Concentration	3.0
	SEMESTER TOTALS	**14.0**
Summer Term		
HSP-053	Work Experience Seminar I *	1.0
HSP-054	Field Experience I *	2.0
--- ---	Area of Concentration	3.0
	SEMESTER TOTALS	**6.0**

SECOND YEAR

First Semester		Hours
HSP-055	Work Experience Seminar II *	1.0
HSP-056	Field Experience II *	2.0
--- ---	Area of Concentration	6.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
Option A		
HSP-057	Work Experience Seminar III *	1.0
HSP-058	Field Experience III *	2.0
--- ---	Area of Concentration	3.0
--- ---	Electives	8.0
Option B		
--- ---	Area of Concentration	3.0
--- ---	Electives	11.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

PHI-280	Ethics	3.0
ECO-130	The American Economy	3.0
SPE-200	Interpersonal Communication	3.0
SPE-213	Intro/Group Discussion *	3.0
SPE-220	Persuasive Speaking *	3.0
SFS-101	Strategies for Success	2.0
BUS-141	Business Communications *	3.0
HSP-065	Intro to Substance Abuse	3.0
ENG-110	Manual Comm-Deaf	3.0
ENG-111	Advanced Signing *	3.0
POS-160	American National Government	3.0
ECE-052	Heads Up! Reading	3.0
CIS-101	Internet Systems/Applications	2.0
CIS-090	InDesign	3.0
CIS-054	PowerPoint	2.0
CIS-099	Web Page Design	3.0
CIS-094	Excel	2.0
CIS-093	Access	2.0
CIS-055	Word	2.0

AREA OF CONCENTRATION

AHE-040	Basic Nurse Assisting	8.0
AHE-041	Medical Terminology	3.0
AHE-042	Advanced Medical Terminology	3.0
ECE-102	Health/Safety/Nutri/Yng Child	3.0
EMS-050	Emergency Medical Tech-Basic *	6.0
HED-270	Community Health	3.0
HED-102	Nutrition	3.0
HED-290	Disease Processes *	2.0
PED-285	Fitness for Life	3.0
HSP-120	Introduction to Social Work	3.0

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HUMAN SERVICES - PSYCHOLOGY

(AAS.HSP.PSY) ASSOCIATE IN APPLIED SCIENCE

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FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
PSY-271	Intr/Psychology	3.0
HSP-103	Foundations of Human Services	3.0
--- ---	Mathematics (IAI M) or	
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
HED-200	Principles of Health	3.0
	SEMESTER TOTALS	**15.0**

Second Semester		
ENG-121	Composition II * or	
SPE-111	Intro to Speech Communication	3.0
HSP-122	Social Welfare	3.0
CIS-160	Practical Software Application	3.0
HED-178	Responding to Emergencies	2.0
--- ---	Area of Concentration	3.0
	SEMESTER TOTALS	**14.0**

Summer Term		
HSP-053	Work Experience Seminar I *	1.0
HSP-054	Field Experience I *	2.0
--- ---	Area of Concentration	3.0
	SEMESTER TOTALS	**6.0**

SECOND YEAR

First Semester		Hours
HSP-055	Work Experience Seminar II *	1.0
HSP-056	Field Experience II *	2.0
--- ---	Area of Concentration	6.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**15.0**

Second Semester		
Option A		
HSP-057	Work Experience Seminar III *	1.0
HSP-058	Field Experience III *	2.0
--- ---	Area of Concentration	3.0
--- ---	Electives	8.0
Option B		
--- ---	Area of Concentration	3.0
--- ---	Electives	11.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

PHI-280	Ethics	3.0
ECO-130	The American Economy	3.0
SPE-200	Interpersonal Communication	3.0
SPE-213	Intro/Group Discussion *	3.0
SPE-220	Persuasive Speaking *	3.0
SFS-101	Strategies for Success	2.0
BUS-141	Business Communications *	3.0
HSP-065	Intro to Substance Abuse	3.0
ENG-110	Manual Comm-Deaf	3.0
ENG-111	Advanced Signing *	3.0
POS-160	American National Government	3.0
ECE-052	Heads Up! Reading	3.0
CIS-101	Internet Systems/Applications	2.0
CIS-090	InDesign	3.0
CIS-054	PowerPoint	2.0
CIS-099	Web Page Design	3.0
CIS-094	Excel	2.0
CIS-093	Access	2.0
CIS-055	Word	2.0

AREA OF CONCENTRATION

ECE-110	Child Behavior Management	3.0
HSP-101	Dynamics of Domestic Violence	3.0
HSP-102	Behavior Management	3.0
SOC-280	Introduction to Sociology	3.0
SOS-235	Death and Dying	3.0
PSY-275	Psych of Maturity and Old Age *	3.0
PSY-274	Child Development	3.0
PSY-278	Family Relations	3.0
PSY-279	Human Dev/Life Span	3.0
PSY-273	Abnormal Psychology *	3.0
PSY-277	Social Psychology *	3.0
HSP-120	Introduction to Social Work	3.0

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HUMAN SERVICES - SOCIOLOGY

(AAS.HSP.SOC) ASSOCIATE IN APPLIED SCIENCE

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Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
PSY-271	Intr/Psychology	3.0
HSP-103	Foundations of Human Services	3.0
--- ---	Mathematics (IAI M) or	
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
HED-200	Principles of Health	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
ENG-121	Composition II * or	
SPE-111	Intro to Speech Communication	3.0
HSP-122	Social Welfare	3.0
CIS-160	Practical Software Application	3.0
HED-178	Responding to Emergencies	2.0
--- ---	Area of Concentration	3.0
	SEMESTER TOTALS	**14.0**
Summer Term		
HSP-053	Work Experience Seminar I *	1.0
HSP-054	Field Experience I *	2.0
--- ---	Area of Concentration	3.0
	SEMESTER TOTALS	**6.0**

SECOND YEAR

First Semester		Hours
HSP-055	Work Experience Seminar II *	1.0
HSP-056	Field Experience II *	2.0
-- ---	Area of Concentration	6.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
Option A		
HSP-057	Work Experience Seminar III *	1.0
HSP-058	Field Experience III *	2.0
--- ---	Area of Concentration	3.0
--- ---	Electives	8.0
Option B		
--- ---	Area of Concentration	3.0
--- ---	Electives	11.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

PHI-280	Ethics	3.0
ECO-130	The American Economy	3.0
SPE-200	Interpersonal Communication	3.0
SPE-213	Intro/Group Discussion *	3.0
SPE-220	Persuasive Speaking *	3.0
SFS-101	Strategies for Success	2.0
BUS-141	Business Communications *	3.0
HSP-065	Intro to Substance Abuse	3.0
ENG-110	Manual Comm-Deaf	3.0
ENG-111	Advanced Signing *	3.0
POS-160	American National Government	3.0
ECE-052	Heads Up! Reading	3.0
CIS-101	Internet Systems/Applications	2.0
CIS-090	InDesign	3.0
CIS-054	PowerPoint	2.0
CIS-099	Web Page Design	3.0
CIS-094	Excel	2.0
CIS-093	Access	2.0
CIS-055	Word	2.0

AREA OF CONCENTRATION

ANT-200	General Anthropology	3.0
CJS-150	Intro/Criminal Just	3.0
SOC-280	Introduction to Sociology	3.0
SOC-282	Social Problems	3.0
SOC-284	Sociology/Deviant Behavior *	3.0
SOC-286	Racial and Ethnic Groups *	3.0
HSP-120	Introduction to Social Work	3.0

The Human Services student has the opportunity to choose from seven areas of concentration: business, dietetics, education, health, criminal justice, psychology and sociology. Fifteen semester hours are required from one of the seven areas to complete the program. All electives must be approved by program coordinator. General Education courses can be used as elective credit. Electives: need 11 credit hours if complete Field Experience III need 14 credit hours if do not complete Field Experience III. Courses listed under areas of concentration can also be used as electives. Computer courses can be used as electives with a maximum of up to 6 hours.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

INDUSTRIAL MAINTENANCE

(CRT.INDMT) CERTIFICATE

This program prepares students for entry level into the field of industrial maintenance. Emphasis is placed on such areas as machine shop, plumbing and electricity, as well as concentration of mechanically oriented course work. Nationwide, the industry needs skilled maintenance mechanics. For a person with training in industrial maintenance, a variety of jobs are available in many locations.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
MTT-050	Intro to Machining Procedures	3.0
TEC-040	Blueprint Reading/Industry I +	2.5
MET-042	A.C. Circuits (Module 2) * +	2.5
MET-040	D.C. Circuits *	2.5
IND-044	Fluid Power	3.0
TEC-048	Applied Shop Computations	3.0
TEC-043	Industrial Safety	1.0
	SEMESTER TOTALS	**17.5**
Second Semester		
MET-043	Motors and Generators (Module 1) * ++	2.5
IND-043	Heat Vent A/C I * ++	4.0
IND-054	Trouble Shooting & Prev Maint * ++	3.0
WEL-057	Welding Fundamentals	2.5
IND-052	Electrical Installation Proc (Module 2) * +++	2.5
SOS-050	Human Relations	2.0
IND-042	Pipefitting Procedures	1.0
	SEMESTER TOTALS	**17.5**
	TOTAL PROGRAM HOURS	**35.0**

+ Course only offered fall semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
++ Course only offered spring and summer semester
+++ Course only offered spring semester

IT-COMPUTER APPLICATIONS

(AAS.ITAPS) ASSOCIATE IN APPLIED SCIENCE

The concentration in Computer Applications provides students with entry-level skills necessary to work as a help-desk technician, software trainer or other computer professional. The student will be provided with a well-rounded computer curriculum featuring courses in application and graphics software, hardware, internet, web page design, networking, and programming.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
CIS-156	Computer Logic *	3.0
CIS-160	Practical Software Application *	3.0
CIS-071	Introduction to Networking or	
CIS-101	Internet Systems/Applications	2.0
SFS-101	Strategies for Success or	
PED ---	P.E. Elective or	
HED ---	Health Elective	2.0
CIS-099	Web Page Design *	3.0
EET-060	Computer Hardware	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-120	Composition I *	3.0
CIS-093	Access *	2.0
CIS-094	Excel	2.0
CIS-100	Advanced Web Page Design *	3.0
MAT-090	Math for Computer Applications +++ or	
MAT 1--	Math Elective	3.0
BUS-142	Introduction to Business	3.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
CIS-056	Advanced Software Applications *	3.0
CIS-095	Database Management * +	3.0
CIS-060	Project Management	2.0
CIS-052	Visual Basic * +	4.0
CIS-088	Adobe Photoshop *	3.0
CIS-092	Adobe Illustrator *	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
CIS-074	IT Seminar	1.0
ITT-041	IT Computer Apps Degree Int *	2.0
CIS-049	Content Management Systems *	2.0
CIS or ITT	Electives **	4.0
PSY-271	Intr/Psychology or	
--- ---	Social Science Elective	3.0
ECO-231	Principles of Econ I (Macro) or	
--- ---	Social Science Elective	3.0
SPE-111	Intro to Speech Communication	3.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**68.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
+ Course only offered fall semester
** Electives must be approved by the Program Coordinator

IT-COMPUTER APPLICATIONS

(CRT.ITAPS) CERTIFICATE

The certificate in Computer Applications lays the foundation for entry level work as a help desk assistant or computer user. The course work is spread among the various information technology concentrations and allows for future completion of any of the IT degrees.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
CIS-156	Computer Logic *	3.0
CIS-160	Practical Software Application *	3.0
CIS-099	Web Page Design *	3.0
CIS-071	Introduction to Networking or	
CIS-101	Internet Systems/Applications	2.0
CIS-094	Excel	2.0
CIS-088	Adobe Photoshop *	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
CIS-093	Access *	2.0
EET-060	Computer Hardware	3.0
CIS-056	Advanced Software Applications *	3.0
ITT-040	IT Computer Apps Cert Int *	1.0
CIS-100	Advanced Web Page Design *	3.0
CIS or ITT	Elective **	2.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**30.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
** Electives must be approved by the Program Coordinator

IT-COMPUTER GAME DEVELOPMENT

(CRT.ITGD) CERTIFICATE

The certificate in Computer Game Development trains students in all phases of the game development process. Coursework includes design, programming, 2D and 3D animation and art. The certificate allows for some flexibility to add other specialty classes as well.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
CIS-156	Computer Logic *	3.0
--- ---	IT Elective **	2.0
CIS-062	Computer Game Development	3.0
CIS-063	3-D Computer Animation +++	3.0
ITT-053	Digital Media Arts +++	3.0
	SEMESTER TOTALS	**14.0**
Second Semester		
CIS-162	Object-Oriented Programming I * +++	3.0
CIS-065	Adv Game Development *	3.0
CIS-069	Adv Animation and Modeling *	3.0
--- ---	IT Elective ** or	
ART ---	Art Elective **	3.0
ITT-050	IT Game Dev Cert Internship *	1.0
ITT-066	Indie Game Development Lab	3.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**30.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
** Electives must be approved by the Program Coordinator
+++ Course only offered spring semester

IT-DIGITAL MEDIA SPECIALIST

(CRT.ITDMS) CERTIFICATE

The certificate in Digital Media trains a student to work at the nexus of web development, movie production and broadcast TV production. The skills required for complete development of a video production from concept to completed broadcast over the air or on the web will be covered.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
RTV-180	Basic TV Production	3.0
CIS-099	Web Page Design *	3.0
CIS-066	Digital Video Production +	3.0
ITT-053	Digital Media Arts +++	3.0
--- ---	IT Elective **	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
CIS-067	Adv Digital Video Production *	3.0
CIS-063	3-D Computer Animation +++	3.0
ITT-048	IT Digital Media Cert Intern *	1.0
ITT-068	Digital Video Effects *	3.0
CIS-049	Content Management Systems	2.0
--- ---	IT Elective **	4.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**31.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester
** Electives must be approved by the Program Coordinator

IT-NETWORK ADMINISTRATION

(AAS.ITNET) ASSOCIATE IN APPLIED SCIENCE

The concentration in Network Administration provides an intensive course of study that prepares a student to work in a business environment while maintaining or administering a microcomputer network. The core required classes cover general areas in information technology and the concentration classes cover both the physical network and operating system environment in great detail. Many of the classes can be used as preparation for various hardware, networking, and OS certifications from Microsoft, CompTIA, Cisco and others.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
EET-060	Computer Hardware	3.0
CIS-156	Computer Logic *	3.0
CIS-160	Practical Software Application *	3.0
CIS-071	Introduction to Networking or	
CIS-101	Internet Systems/Applications	2.0
SFS-101	Strategies for Success or	
PED ---	P.E. Elective or	
HED ---	Health Elective	2.0
CIS-099	Web Page Design *	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
CIS-079	Client Operating System	3.0
CIS-081	Networking Essentials	3.0
ENG-120	Composition I *	3.0
CIS-060	Project Management +	2.0
MAT-090	Math for Computer Applications * or	
MAT 1--	Math Elective *	3.0
SPE-111	Intro to Speech Communication	3.0
	SEMESTER TOTALS	**17.0**

SECOND YEAR

First Semester		Hours
CIS-084	Server Operating Systems *	3.0
CIS-087	TCP/IP and Routing * +	3.0
CIS-073	Survey of Operating Systems +	3.0
ECO-231	Principles of Econ I (Macro) or	
--- ---	Social Science Elective	3.0
PSY-271	Intr/Psychology or	
--- ---	Social Science Elective	3.0
BUS-142	Introduction to Business	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
CIS-074	IT Seminar	1.0
ITT-043	IT Net Admin Degree Int *	2.0
CIS-085	Adv Server Operating System *	3.0
CIS-089	Advanced Routing * +++	3.0
CIS-070	Network Security * +	3.0
--- ---	IT Elective **	2.0
CIS-053	Wireless Networking * +++	3.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**68.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester
** Electives must be approved by the Program Coordinator

IT-NETWORK ADMINISTRATION

(CRT.ITNET) CERTIFICATE

The certificate in Network Administration lays the foundation for entry level work as a network technician or PC technician. The course work is spread among the various information technology concentrations and allows for future completion of any of the IT degrees without complications. The certificate is excellent for supplementing another associate degree.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
EET-060	Computer Hardware	3.0
CIS-156	Computer Logic *	3.0
CIS-160	Practical Software Application *	3.0
CIS-071	Introduction to Networking or	
CIS-101	Internet Systems/Applications	2.0
CIS-079	Client Operating System	3.0
	SEMESTER TOTALS	**14.0**
Second Semester		
CIS-081	Networking Essentials	3.0
CIS-099	Web Page Design *	3.0
CIS-073	Survey of Operating Systems +	3.0
CIS-084	Server Operating Systems *	3.0
ITT-042	IT Net Admin Cert Internship	1.0
--- ---	IT Elective **	3.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**30.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
** Electives must be approved by the Program Coordinator

IT-PROGRAMMING

(AAS.ITPRO) ASSOCIATE IN APPLIED SCIENCE

The concentration in Programming provides the necessary training to prepare a student to enter business, industry or government work in programming and related jobs.

The core required classes cover general areas of Information Technology and the concentration classes cover a variety of application programming languages, web programming and database interactivity.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
CIS-156	Computer Logic *	3.0
CIS-160	Practical Software Application *	3.0
CIS-071	Introduction to Networking	2.0
SFS-101	Strategies for Success or	
PED ---	P.E. Elective or	
HED ---	Health Elective	2.0
EET-060	Computer Hardware	3.0
CIS-099	Web Page Design *	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-120	Composition I *	3.0
CIS-162	Object-Oriented Programming I * +++	3.0
CIS-100	Advanced Web Page Design *	3.0
MAT-090	Math for Computer Applications +++ or	
MAT 1---	Math Elective *	3.0
SPE-111	Intro to Speech Communication	3.0
BUS-142	Introduction to Business	3.0
	SEMESTER TOTALS	**18.0**

SECOND YEAR

First Semester		Hours
CIS-095	Database Management *	3.0
CIS-052	Visual Basic * +	4.0
ECO-231	Principles of Econ I (Macro) or	
--- ---	Social Science Elective	3.0
CIS-060	Project Management	2.0
CIS-164	Object-Oriented Programming II * +	3.0
CIS-170	Java Programming * +	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
CIS-083	Systems Design * +++	4.0
CIS-074	IT Seminar	1.0
ITT-045	IT Programming Degree Int *	2.0
PSY-271	Intr/Psychology or	
--- ---	Social Science Elective	3.0
ITT-054	Mobile Application Development * +++	3.0
CIS-050	Advanced Web Technologies * +++	3.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**68.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
+ Course only offered fall semester

IT-PROGRAMMING

(CRT.ITPROG) CERTIFICATE

The certificate in Programming lays the foundation for entry level work as a computer operator or computer programmer. The course work is spread among the various information technology concentrations and allows for future completion of any of the IT degrees. The certificate is excellent for supplementing another associate degree.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
CIS-156	Computer Logic *	3.0
CIS-160	Practical Software Application *	3.0
CIS-071	Introduction to Networking	2.0
CIS-099	Web Page Design *	3.0
CIS-060	Project Management	2.0
	SEMESTER TOTALS	**13.0**
Second Semester		
EET-060	Computer Hardware	3.0
CIS-052	Visual Basic * +	4.0
CIS-162	Object-Oriented Programming I * +++	3.0
ITT-044	IT Programming Cert Int *	1.0
CIS or ITT	Electives **	6.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**30.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester
** Electives must be approved by the Program Coordinator

IT- WEB TECHNOLOGY

(AAS.ITWEB) ASSOCIATE IN APPLIED SCIENCE

The concentration in Web Technology degree is designed to provide students with the skills necessary to work independently or in business as a web page designer/developer. The student will be provided with a well-rounded computer curriculum featuring courses in application and graphics software, hardware, internet, web page design, and programming.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
CIS-156	Computer Logic *	3.0
CIS-160	Practical Software Application *	3.0
CIS-071	Introduction to Networking or	
CIS-101	Internet Systems/Applications	2.0
CIS-099	Web Page Design *	3.0
EET-060	Computer Hardware	3.0
CIS-049	Content Management Systems +	2.0
	SEMESTER TOTALS	**16.0**

Second Semester		
CIS-051	Designing for the Web	3.0
CIS-060	Project Management	2.0
MAT-090	Math for Computer Applications +++ or	
MAT 1---	Math Elective *	3.0
SFS-101	Strategies for Success or	
PED ---	P.E. Elective or	
HED ---	Health Elective	2.0
CIS-162	Object-Oriented Programming I * +++	3.0
CIS or ITT	IT Elective	2.0
CIS-088	Adobe Photoshop *	3.0
	SEMESTER TOTALS	**18.0**

SECOND YEAR

First Semester		Hours
CIS-095	Database Management * +	3.0
CIS-100	Advanced Web Page Design *	3.0
SPE-111	Intro to Speech Communication	3.0
ECO-231	Principles of Econ I (Macro) or	
--- ---	Social Science Elective	3.0
ENG-120	Composition I *	3.0
CIS-170	Java Programming * +	3.0
	SEMESTER TOTALS	**18.0**

Second Semester		
CIS-083	Systems Design * +++	4.0
ITT-054	Mobile Application Development * +++	3.0
CIS-050	Advanced Web Technologies * +++	3.0
CIS-074	IT Seminar	1.0
ITT-047	IT Web Technology Degree Int *	2.0
PSY-271	Intr/Psychology or	
--- ---	Social Science Elective	3.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**68.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
+ Course only offered fall semester

IT-WEB TECHNOLOGY

(CRT.ITWEB) CERTIFICATE

The certificate in Web Technology lays the foundation for entry level work as a web page designer. The course work emphasizes software applications and web page design instruction and allows for future completion of the Web Technology IT degree without complications.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
CIS-156	Computer Logic *	3.0
CIS-160	Practical Software Application *	3.0
CIS-071	Introduction to Networking	2.0
CIS-101	Internet Systems/Applications or	
CIS-049	Content Management Systems +	2.0
CIS-088	Adobe Photoshop *	3.0
CIS-099	Web Page Design *	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
CIS-051	Designing for the Web *	3.0
CIS-100	Advanced Web Page Design *	3.0
ITT-046	IT Web Technology Cert Int *	1.0
CIS or ITT	IT Electives **	7.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**30.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
** Electives must be approved by the Program Coordinator
+ Course only offered fall semester

JOHN DEERE TECH

(AAS.JDAT) ASSOCIATE IN APPLIED SCIENCE

A new generation of farm equipment demands a new generation of service technicians. To meet this demand, John Deere Company has created the John Deere Tech program and has selected Lake Land College as one of a limited number of North American sites.

The John Deere Tech program, offered jointly by John Deere and Lake Land College in cooperation with John Deere dealers, offers students many unique opportunities including earning a salary while learning through on-the-job training at a participating dealership; training on the latest John Deere tractors, combines and implements and learning the newest diagnostic and servicing procedures.

Students also have the opportunity to move directly into employment with their sponsoring dealership upon successful completion of this associate in applied science degree program.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
--- ---	John Deere Elective	1.0
JDA-080	John Deere Electrical Systems +	3.5
TEC-048	Applied Shop Computations +	3.0
JDA-091	John Deere Hydraulics I +	3.0
JDA-073	JD Shop Skills & Fundamentals +	3.0
JDA-111	John Deere Ag Software +	2.0
HED-178	Responding to Emergencies	2.0
	SEMESTER TOTALS	**17.5**
Second Semester		
--- ---	John Deere Elective	2.0
ENG-050	Writing for Industry or	
ENG-120	Composition I *	3.0
JDA-071	John Deere Power Trains * +++	3.0
JDA-086	John Deere Combine Production * +++	2.5
JDA-092	John Deere Hydraulics II * +++	3.0
ECO-130	The American Economy	3.0
	SEMESTER TOTALS	**16.5**
Summer Term		
JDA-094	John Deere Air Cond Systems * ++++	2.5
JDA-041	John Deere SOE I * ++++	2.0
--- ---	John Deere Elective * ++++	2.0
	SEMESTER TOTALS	**6.5**

SECOND YEAR

First Semester		Hours
JDA-042	John Deere SOE II *	4.0
JDA-087	John Deere Fuel Systems *	3.0
JDA-050	John Deere Engine Systems *	3.0
SPE-111	Intro to Speech Communication	3.0
--- ---	John Deere Elective * +	1.0
	SEMESTER TOTALS	**14.0**
Second Semester		
JDA-095	John Deere Equip Diagnostics * +++	3.0
POS-160	American National Government	3.0
JDA-082	JD Adv Elect/Electronic Sys * +++	3.5
JDA-043	John Deere SOE III * +++	4.0
	SEMESTER TOTALS	**13.5**
	TOTAL PROGRAM HOURS	**68.0**

SUGGESTED ELECTIVES

WEL-057	Welding Fundamentals	2.5
JDA-072	JD Advanced Power Trains *	3.0
JDA-051	JD Tillage & Seeding Equipment +	3.0
AGR-052	Principles of Crop Production +	3.0
JDA-054	JD Turf and Utility Equipment +++	2.0
JDA-113	John Deere Apex Software +++	2.0
JDA-114	John Deere Hay Equipment *	2.0

+ Course only offered fall semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
++++ Course offered in summer term only

LAW ENFORCEMENT

(AAS.LE) ASSOCIATE IN APPLIED SCIENCE

The Law Enforcement degree is intended for students who do not intend to transfer to a university after graduation and who primarily intend to seek a career as a police officer in a local or county police agency. This degree can also be ideal for those seeking a career in corrections by taking electives related to the field. Contact an academic advisor for a specific academic plan leading to successful graduation.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
CJS-150	Intro/Criminal Just	3.0
CIS-160	Practical Software Application	3.0
SFS-101	Strategies for Success or	
SFS-103	Life Strategies	2.0
ENG-120	Composition I	3.0
CJS-080	Introduction to Policing	3.0
	SEMESTER TOTALS	**14.0**
Second Semester		
CJS-152	Criminal Investigation I	3.0
CJS-156	Criminal Law	3.0
--- ---	Math or Science Elective	3.0
CJS-081	Police Report Writing	2.0
PSY-271	Intr/Psychology	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**17.0**

SECOND YEAR

First Semester		Hours
CJS-160	Criminal Evidence & Procedure	3.0
SOC-282	Social Problems or	
SOC-280	Introduction to Sociology	3.0
CJS-153	Police Operations	3.0
CJS-090	Community Policing	3.0
SPE-200	Interpersonal Communication	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
CJS-158	Juvenile Justice	3.0
CJS-091	Ethics in Criminal Justice	3.0
HED-178	Responding to Emergencies	2.0
CJS-250	Criminology	3.0
--- ---	Electives	4.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**64.0**

LAW ENFORCEMENT OPERATIONS

(NDP.LEO) CERTIFICATE

The certificate in Law Enforcement Operations is aimed at students who are seeking a career in law enforcement but may not be able to complete an entire degree at the present time. This certificate will provide basic law enforcement operational knowledge to help students be more successful in their law enforcement careers.

This certificate can be applied toward the Law Enforcement associate in applied science degree to help expand the student's credentials and knowledge.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR		
First Semester		**Hours**
CJS-080	Introduction to Policing	3.0
CJS-081	Police Report Writing	2.0
CJS-090	Community Policing	3.0
CJS-150	Intro/Criminal Just	3.0
CJS-152	Criminal Investigation I	3.0
CJS-153	Police Operations	3.0
CJS-160	Criminal Evidence & Procedure	3.0
HED-178	Responding to Emergencies	2.0
	SEMESTER TOTALS	**22.0**
	TOTAL PROGRAM HOURS	**22.0**

LIVESTOCK PRODUCTION

(CRT.LVST) CERTIFICATE

The specialized Livestock Production certificate is designed to prepare students for employment positions in a variety of livestock areas. These jobs include herdsman positions, A.I. technicians, livestock managers and home farm operators. The SOE internship provides added experience in livestock management and production.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR

First Semester		Hours
AGR-040	Agricultural Mathematics + or	
MAT-116	General Education Math *	2.5
AGR-052	Principles of Crop Production +	3.0
AGR-060	Animal Husbandry +	3.0
AGR-050	Soils + or	
AGR-205	Intro/Soil Science * +++	3.5
AGR-122	Farm Management * +	2.5
AGR-061	Livestock Evaluation +	3.0
	SEMESTER TOTALS	**17.5**
Second Semester		
AGR-111	Intro to Agriculture Software +++	2.0
AGR-049	OSHA/Ag Mach Safety +++	1.0
AGR-123	Marketing of Ag Products +++	2.5
AGR-063	Animal Nutrition +++	2.5
AGR-124	Farm Credit and Finance +++	2.0
AGR-064	Beef/Dairy Production Skills +++	1.5
AGR-070	Swine Production Skills +++	1.5
AGR-065	A.I. Management-Cattle +++ or	
AGR-071	Swine Reproduction and A.I. +++	1.0
AGR-041	Supervised Occupational Exp I	3.5
	SEMESTER TOTALS	**17.5**
Summer Term		
AGR-120	Agriculture Economics ++++	3.0
	Elective	2.0
	SEMESTER TOTALS	**5.0**
	TOTAL PROGRAM HOURS	**40.0**

SUGGESTED ELECTIVES

AGR-066	Meat Science +++	2.0
AGR-053	Integrated Pest Management ++++	3.0
AGR-121	Farm Business Records +++	2.5
AGR-090	Principles of Agri Mechanics +	2.5
AGR-042	Supervised Ocupational Exp II ++++	2.5

\+ Course only offered fall semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
++++ Course offered in summer term only

MANAGEMENT

(AAS.MGT) ASSOCIATE IN APPLIED SCIENCE

The Management degree is designed for (1) those who plan to own and operate their own business and (2) those who plan to work as technicians, supervisors, or managers in for-profit or not-for-profit organizations. Using career electives, a specialized management curriculum can be designed to meet the needs of students in such diverse areas as marketing, retailing, sales, manufacturing, construction, transportation, technology and the trades.

Total credit hours for graduation in this program must equal or exceed 65.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
BUS-142	Introduction to Business	3.0
ECO-231	Principles of Econ I (Macro)	3.0
ENG-120	Composition I * or	
ENG-095	Business English	3.0
BUS-113	Keyboarding or	
--- ---	Career Elective **	3.0
SFS-101	Strategies for Success or	
HED ---	Health Elective or	
PED ---	P.E. Elective	2.0
	SEMESTER TOTALS	**14.0**
Second Semester		
CIS-160	Practical Software Application *	3.0
BUS-251	Principles of Management	3.0
BUS-247	Principles of Marketing	3.0
BUS-141	Business Communications * or	
--- ---	Career Elective **	3.0
ECO-232	Prin Economics II (Micro) * or	
POS-162	State/Local Govern	3.0
	SEMESTER TOTALS	**15.0**
Summer Term		
BUS-091	Prin of Advertising ++++	3.0
BUS-092	Principles of Selling	3.0
BUS-090	Prin of Retailing ++++ or	
BUS-089	Small Business Management	3.0
	SEMESTER TOTALS	**9.0**

SECOND YEAR

First Semester		Hours
BUS-290	Human Resource Management *	3.0
BUS-151	Financial Accounting *	3.0
SPE-111	Intro to Speech Communication	3.0
BUS-200	Legal Environ/Business or	
--- ---	Career Elective **	3.0
BUS-094	Business Math or	
MAT-1**	Mathematics Elective *	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
BUS-285	Labor Relations * +++	3.0
BUS-074	Management Seminar ** or	
--- ---	Career Elective **	1.0
BUS-076	Management Internship ** or	
--- ---	Career Elective **	4.0
BUS-078	Management/Marketing Capstone *	1.0
BUS-096	Federal Tax Accounting or	
BUS-152	Managerial Accounting *	3.0
	SEMESTER TOTALS	**12.0**
	TOTAL PROGRAM HOURS	**65.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
** Electives must be approved by the Program Coordinator
++++ Course offered in summer term only
+++ Course only offered spring semester

MANAGEMENT

(NDP.MGT) CERTIFICATE

The certificate in Management program prepares students for entry level positions in supervision and management. Employees can use this program to prepare for upward mobility and/or update management and supervisory skills. All courses satisfactorily completed in this certificate program will apply to the associate in applied science degree with a major in management.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
BUS-089	Small Business Management or	
BUS-142	Introduction to Business	3.0
BUS-290	Human Resource Management *	3.0
BUS-251	Principles of Management	3.0
BUS-200	Legal Environ/Business	3.0
CIS-160	Practical Software Application *	3.0
--- ---	Career Elective **	3.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**18.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
** Electives must be approved by the Program Coordinator

MANUFACTURING SKILLS I

(NDP.MSP) CERTIFICATE

This certificate prepares graduates for entry level manufacturing positions. Emphasis is placed upon measurement, hydraulics, pneumatics, electric motors, and mechanical and electrical drives. Basic skills in blueprint reading and mathematics are also included in this program.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
TEC-040	Blueprint Reading/Industry I	2.5
TEC-046	Manufacturing Skills I	2.0
TEC-047	Manufacturing Skills II	2.0
TEC-048	Applied Shop Computations	3.0
TEC-049	Manufacturing Skills III	2.0
TEC-051	Manufacturing Skills IV	2.0
TEC-055	Special Topics in Technology	0.5
TEC-090	Education-To-Careers	3.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**17.0**

MARKETING

(AAS.MKTG) ASSOCIATE IN APPLIED SCIENCE

The Marketing program prepares students for employment positions in sales, retailing, marketing and other related business areas. It can also be used to upgrade skills and knowledge of presently employed personnel to allow them to advance their careers. This program provides the broad background necessary to succeed in modern marketing with special emphasis placed on pricing, promotion, distribution and product conception within both the profit and not-for-profit sectors.

Total credit hours for graduation in this program must equal or exceed 64.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
BUS-142	Introduction to Business	3.0
BUS-094	Business Math or	
MAT 1---	Math Elective *	3.0
ENG-120	Composition I *	3.0
SFS-101	Strategies for Success or	
HED ---	Health Elective or	
PED ---	P.E. Elective	2.0
SOS-050	Human Relations	2.0
	SEMESTER TOTALS	**13.0**
Second Semester		
BUS-251	Principles of Management	3.0
BUS-247	Principles of Marketing	3.0
CIS-160	Practical Software Application *	3.0
ENG-121	Composition II *	3.0
BUS-085	Accounting Process or	
--- ---	Career Elective **	1.0
	SEMESTER TOTALS	**13.0**
Summer Term		
BUS-092	Principles of Selling	3.0
BUS-091	Prin of Advertising ++++	3.0
BUS-090	Prin of Retailing ++++	3.0
	SEMESTER TOTALS	**9.0**

SECOND YEAR

First Semester		Hours
BUS-151	Financial Accounting *	3.0
BUS-141	Business Communications *	3.0
ECO-231	Principles of Econ I (Macro)	3.0
BUS-200	Legal Environ/Business	3.0
SPE-111	Intro to Speech Communication	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
PSY-271	Intr/Psychology	3.0
ECO-232	Prin Economics II (Micro) * or	
POS-162	State/Local Govern	3.0
BUS-134	Principles of E-Commerce or	
--- ---	Career Elective **	2.0
BUS-057	Marketing Internship ** or	
--- ---	Career Elective **	4.0
BUS-056	Marketing Seminar ** or	
--- ---	Career Elective **	1.0
BUS-078	Management/Marketing Capstone *	1.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**64.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
** Electives must be approved by the Program Coordinator
++++ Course offered in summer term only

MARKETING

(CRT.MKTG) CERTIFICATE

The certificate in Marketing program prepares students for entry level positions in account management, sales, retailing, and marketing. Current employees can use this program to prepare for upward mobility and/or update marketing skills. All courses satisfactorily completed in this certificate program will apply to the associate in applied science degree with a major in marketing.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
BUS-142	Introduction to Business	3.0
BUS-247	Principles of Marketing	3.0
BUS-141	Business Communications *	3.0
CIS-160	Practical Software Application *	3.0
	SEMESTER TOTALS	**12.0**
Second Semester		
BUS-090	Prin of Retailing ++++	3.0
BUS-091	Prin of Advertising ++++	3.0
BUS-092	Principles of Selling	3.0
--- ---	Career Elective **	3.0
	SEMESTER TOTALS	**12.0**
	TOTAL PROGRAM HOURS	**24.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
++++ Course offered in summer term only
** Electives must be approved by the Program Coordinator

MASSAGE THERAPY

(CRT.MT) CERTIFICATE

The Massage Therapy program is designed to prepare the individual in all areas of massage. Massage therapy is physically demanding work. Students need to have good general health and the strength, stamina, and flexibility necessary to carry out assignments. Massage techniques and bodywork, anatomy, professionalism with clients, and business practices are included in the curriculum. In addition to tuition and fees, costs for the Massage Therapy program include: workbooks, massage supplies, table, clinical attire and the board exam/license fee.

Housed at the Lake Land College Kluthe Center for Higher Education and Technology in Effingham, Illinois, classes begin each fall semester and run for 4 consecutive semesters. Once admitted to the program, the student must progress through the courses corresponding to the curriculum model. A "C" grade is required in all Massage Therapy curriculum courses for progression/completion. Upon completion of the course, the student will receive a certificate and will be eligible to sit for Massage and Bodywork Licensing Examination (MBLEx).

Massage Therapy application requirements include admission to Lake Land College, completion of the Massage Therapy program application form (obtained from program website), and completion of the college placement assessment tests. To be considered a candidate, students must have an application file completed by July 1 for consideration for the fall semester.

See career track program Massage Therapy Track (CRT.MT.TRK) when selecting a major.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
MAS-055	Massage Therapy I * +	5.0
BIO-050	Basic Anatomy & Physiology	4.0
HED-178	Responding to Emergencies	2.0
	SEMESTER TOTALS	**11.0**
Second Semester		
MAS-065	Massage Therapy II * +++	5.0
MAS-060	A & P for Massage Therapist II * ++	4.0
MAS-067	Pathology/Massage Therapist +++	3.0
	SEMESTER TOTALS	**12.0**
Summer Term		
MAS-075	Massage Therapy III * ++++	5.0
MAS-077	Massage Clinic I * ++++	1.5
	SEMESTER TOTALS	**6.5**

SECOND YEAR		
First Semester		**Hours**
MAS-070	Ethics for Massage Therapist +	1.0
MAS-085	Massage Therapy IV * +	5.0
BUS-089	Small Business Management	3.0
MAS-087	Massage Clinic II * +	1.5
	SEMESTER TOTALS	**10.5**
	TOTAL PROGRAM HOURS	**40.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester
++ Course only offered spring and summer semester
++++ Course offered in summer term only

MASSAGE THERAPY - TRACK

(CRT.MT.TRK)

The Massage Therapy Certificate Track prepares the student for acceptance into the Massage Therapy program. Applicants are instructed to begin their Massage Therapy application with the CRT.MT.TRK major code. Students are counseled on admission requirements into the Massage Therapy program. Once accepted into the Massage Therapy program, the major code will be changed to CRT.MT.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

MECHANICAL-ELECTRICAL TECHNOLOGY

(AAS.MET) ASSOCIATE IN APPLIED SCIENCE

Mechanical Electrical Technology (MET) program is designed to give the student a wide background in mechanical and electrical skills. These skills and knowledge include welding, hydraulics, pneumatics, CAD, CNC, HVAC, AC/DC circuits, ladder logic, motors and PLCs. Technical electives are incorporated into this degree to allow the student to focus more concentration in an area of their interest (such as wind or solar). Graduates will be prepared for many different kinds of technical jobs for today and the future. Some of these employment opportunities include: CAD operator/designer, CNC operator/programmer, HVAC technician, maintenance technician, industrial electrician and service technician. A graduate with a MET degree will be prepared for high paying technical jobs that are available locally and nationwide.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
ENG-098	Communications I or	
ENG-050	Writing for Industry	3.0
TEC-040	Blueprint Reading/Industry I +	2.5
IND-044	Fluid Power	3.0
TEC-050	Technical Math I (Module 1)	2.0
TEC-052	Technical Math II (Module 2) *	2.0
EET-040	Basic Electronics (Module 1)	2.5
EET-050	Electric Circuits I (Module 2) *	2.5
	SEMESTER TOTALS	**17.5**
Second Semester		
MET-080	Solid State Devices & Apps * +++	3.0
TEC-054	Technical Math III (Module 1) *	2.0
MET-043	Motors and Generators (Module 1) * +++	2.5
MTT-050	Intro to Machining Procedures (Module 2)	3.0
IND-052	Electrical Installation Proc (Module 2) * +++	2.5
CAD-056	CAD I	2.0
HED-178	Responding to Emergencies	2.0
	SEMESTER TOTALS	**17.0**

SECOND YEAR

First Semester		Hours
IND-043	Heat Vent A/C I *	4.0
CIS-068	Computer Appl-Special Topics +	2.0
CAD-057	CAD II *	3.0
EET-072	Industrial Control I (Module 1) * +	2.0
EET-086	Prog Logic Controllers I (Module 2) * +	2.0
--- ---	Social Science Elective	2.0
--- ---	Technical Elective **	2.0
	SEMESTER TOTALS	**17.0**
Second Semester		
IND-054	Trouble Shooting & Prev Maint * +++	3.0
CIM-060	CNC Machining * +++	3.0
MET-084	Technical Mechanisms * +++	3.0
WEL-057	Welding Fundamentals	2.5
--- ---	Economics Elective	3.0
--- ---	Technical Elective **	3.0
	SEMESTER TOTALS	**17.5**
	TOTAL PROGRAM HOURS	**69.0**

SUGGESTED ELECTIVES

WND-040	Intro to Wind Technology	3.0
EET-068	Photovoltaic Systems *	3.0
IND-042	Pipefitting Procedures	1.0
TEC-043	Industrial Safety	1.0
EET-087	Prog Logic Controllers II *	2.0
EET-075	HMI-Human Machine Interface *	2.0
CAD-058	CAD Drafting Systems *	2.0
CAD-059	Special Applications of CAD *	3.0
EET-069	Residential Wiring I *	3.0
CAD-062	Introduction to Solidworks * +++	2.0
EET-071	Routing & Switch Fundamentals * +	3.0

+ Course only offered fall semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
** Electives must be approved by the Program Coordinator

MECHATRONICS

(AAS.MECH) ASSOCIATE IN APPLIED SCIENCE

Mechatronics is a growing field that integrates electrical, mechanical, and digital control systems. Graduates create, maintain, and repair the latest equipment used in manufacturing and industrial settings. This program provides a combination of technical and scientific skills which enables graduates to work in a variety of settings. Instructional courses include: electricity, digital and linear circuits, numerical control, programmable logic controllers, as well as fluid power and mechanical systems.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
EET-040	Basic Electronics (Module 1)	2.5
EET-050	Electric Circuits I (Module 2) *	2.5
CAD-056	CAD I	2.0
ENG-050	Writing for Industry	3.0
EET-056	Electronic Design/Fabrication	3.0
TEC-050	Technical Math I (Module 1)	2.0
TEC-052	Technical Math II (Module 2)	2.0
	SEMESTER TOTALS	**17.0**

Second Semester		
EET-076	Digital Logic *	3.0
EET-052	Solid State Devices *	4.0
IND-044	Fluid Power	3.0
HED-178	Responding to Emergencies	2.0
TEC-054	Technical Math III *	2.0
MET-045	Mechanical Drive Systems	2.0
TEC-043	Industrial Safety	1.0
	SEMESTER TOTALS	**17.0**

SECOND YEAR

First Semester		Hours
EET-048	Digital Circuits	3.0
EET-078	Linear Electronics	3.0
EET-086	Prog Logic Controllers I *	2.0
EET-081	Microcontroller Applications *	3.0
EET-071	Routing & Switch Fundamentals	3.0
--- ---	Technical Elective	2.0
	SEMESTER TOTALS	**16.0**

Second Semester		
--- ---	Technical Elective	4.0
TEC-053	Technical Project Management	3.0
SPE-111	Intro to Speech Communication	3.0
EET-075	HMI-Human Machine Interface	2.0
--- ---	Social Science Elective	3.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**65.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.

MEDICAL CODING & HEALTH INFORMATION

(AAS.HIMC) ASSOCIATE IN APPLIED SCIENCE

This program will prepare students for management positions in Health Information. Students are instructed in medical ethics, coding, information technology, statistics, management, and medical reimbursement. Upon successful completion of the program, graduates will be able to sit for medical coding exams available through national organizations such as the American Health Information Management Association (AHIMA) and the American Academy of Professional Coders (AAPC).

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
CIS-160	Practical Software Application *	3.0
MCS-040	Health Info for Professionals	3.0
BIO-050	Basic Anatomy & Physiology	4.0
AHE-041	Medical Terminology	3.0
AHE-044	Pathophysiology	3.0
SFS-101	Strategies for Success	2.0
	SEMESTER TOTALS	**18.0**
Second Semester		
PNC-053	Basic Pharmacology I (Module 1)	2.0
PNC-055	Basic Pharmacology II (Module 2) *	1.0
MCS-050	Principles of CPT Coding	3.0
MCS-055	Principles of ICD-10-CM Coding	3.0
BUS-063	Medical Transcription (Module 1) *	1.0
BUS-084	Adv Medical Transcription (Module 2) *	1.0
AHE-055	Math for Meds	2.0
ENG-095	Business English	3.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
MCS-065	Adv CPT Coding and Modifiers *	3.0
MCS-070	Advanced ICD-10-CM Coding *	3.0
MCS-068	Medical Management and Ethics *	3.0
BUS-095	Fundamentals of Accounting	3.0
MCS-056	Credentialing/Emerging Coding *	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
MCS-091	Healthcare Statistics *	3.0
MCS-092	Medical Records and the Law *	3.0
PSY-271	Intr/Psychology	3.0
MCS-060	Medical Ins Reimbursement	3.0
BUS-141	Business Communications *	3.0
MCS-075	Hospital-Med Coding Internship * or	
MCS-085	Hospital Coding Cert Prep *	1.0
MCS-080	Clinic-Med Coding Internship * or	
MCS-090	Clinic Coding Cert Prep *	1.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**66.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.

MEDICAL CODING SPECIALIST

(CRT.MCS) CERTIFICATE

Medical Coding Specialist Certificate presents a comprehensive study of both diagnostic and procedural medical coding using nationally recognized ICD-10-CM, CPT, and HCPCS coding. It prepares the student for employment as a coding specialist in hospitals, clinics, surgery centers, long-term and home health care facilities. Coding specialists are also employed by consulting firms, coding and billing services, insurance companies, and governmental agencies. Upon successful completion of the program, graduates will be able to pass coding exams available through national organizations such as the American Health Information Management Association (AHIMA) and the American Academy of Professional Coders (AAPC).

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
CIS-160	Practical Software Application *	3.0
MCS-040	Health Info for Professionals	3.0
BIO-050	Basic Anatomy & Physiology	4.0
AHE-044	Pathophysiology	3.0
	SEMESTER TOTALS	**13.0**
Second Semester		
PNC-053	Basic Pharmacology I (Module 1)	2.0
PNC-055	Basic Pharmacology II *	1.0
AHE-041	Medical Terminology	3.0
MCS-050	Principles of CPT Coding	3.0
MCS-055	Principles of ICD-10-CM Coding	3.0
BUS-063	Medical Transcription (Module 1) *	1.0
BUS-084	Adv Medical Transcription (Module 2) *	1.0
	SEMESTER TOTALS	**14.0**

SECOND YEAR		
First Semester		**Hours**
MCS-060	Medical Ins Reimbursement	3.0
BUS-141	Business Communications *	3.0
MCS-065	Adv CPT Coding and Modifiers *	3.0
MCS-070	Advanced ICD-10-CM Coding *	3.0
MCS-075	Hospital-Med Coding Internship * or	
MCS-085	Hospital Coding Cert Prep *	1.0
MCS-080	Clinic-Med Coding Internship * or	
MCS-090	Clinic Coding Cert Prep *	1.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**41.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.

MEDICAL TRANSCRIPTIONIST

(CRT.MDTRN) CERTIFICATE

Students will complete coursework in Microsoft Office software, medical transcription, medical terminology, billing and coding, medical software, desktop publishing, keyboarding, and document formatting. Students will also develop interpersonal and communication skills. All courses apply toward one of the Office Assistant degrees.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
BUS-114	Advanced Formatting *	3.0
ENG-095	Business English	3.0
BUS-063	Medical Transcription (Module 1) *	1.0
BUS-084	Adv Medical Transcription (Module 2) *	1.0
BUS-059	Medical Insurance and Coding	3.0
BIO-050	Basic Anatomy & Physiology	4.0
	SEMESTER TOTALS	**15.0**
Second Semester		
CIS-058	Specialized Software Apps	3.0
BUS-115	Processing Info * ++	3.0
BUS-079	Professional Development (Module) +++	3.0
BUS-060	Automated Office Procedures * +++	3.0
BUS-082	Medical Transcript Internship *	3.0
BUS-080	Office Professionals Seminar *	1.0
	SEMESTER TOTALS	**16.0**
Summer Term		
AHE-041	Medical Terminology	3.0
CIS-160	Practical Software Application *	3.0
	SEMESTER TOTALS	**6.0**
	TOTAL PROGRAM HOURS	**37.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
++ Course only offered spring and summer semester
+++ Course only offered spring semester

NANNY CHILD CARE PROVIDER

(CRT.NCCP) CERTIFICATE

This program prepares the student for the care of children in a live-out or live-in family-oriented setting. In addition to developing the skills and knowledge needed to provide for the child's physical, intellectual, emotional and social well-being, the nanny will acquire basic home management skills. Emphasis is also given to interpersonal relationships since the nanny is often considered a member of the family. A "C" average in required Early Childhood Care and Education core classes must be maintained by students prior to enrolling in ECE 125.

ECE 120 and 125 must be taken the same semester.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
ECE-100	Intro to Early Childhood Educ	3.0
ECE-102	Health/Safety/Nutri/Yng Child	3.0
ECE-095	Creative Activities/Children	4.0
ECE-051	Infant/Toddler Environment	3.0
ECE-110	Child Behavior Management	3.0
HED-178	Responding to Emergencies	2.0
	SEMESTER TOTALS	**18.0**
Second Semester		
PSY-278	Family Relations	3.0
ECE-086	Nanny/Family Relations	2.0
PSY-274	Child Development	3.0
SPE-111	Intro to Speech Communication	3.0
ECE-120	Field Experience Seminar *	1.0
ECE-125	Field Experience *	4.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**34.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.

OFFICE ASSISTANT-EXECUTIVE

(AAS.AAEXE) ASSOCIATE IN APPLIED SCIENCE

Students will be highly trained to work in a variety of offices performing administrative support responsibilities. They will complete coursework in Microsoft Office software, notetaking, legal terminology, desktop publishing, web design, document formatting, and accounting. Students will also develop interpersonal and communication skills. The internship provides students with a realistic work experience.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
BUS-114	Advanced Formatting *	3.0
BUS-123	Notetaking +	4.0
BUS-142	Introduction to Business	3.0
CIS-160	Practical Software Application *	3.0
ENG-095	Business English	3.0
SFS-101	Strategies for Success or	
HED ---	Health Elective or	
PED ---	P.E. Elective	2.0
	SEMESTER TOTALS	**18.0**
Second Semester		
BUS-115	Processing Info * ++	3.0
BUS-094	Business Math	3.0
CIS-099	Web Page Design *	3.0
BUS-095	Fundamentals of Accounting or	
BUS-151	Financial Accounting *	3.0
CIS-101	Internet Systems/Applications or	
CIS-071	Introduction to Networking	2.0
--- ---	Social Science Elective ^	3.0
	SEMESTER TOTALS	**17.0**

SECOND YEAR

First Semester		Hours
CIS-056	Advanced Software Applications *	3.0
CIS-058	Specialized Software Apps	3.0
BUS-141	Business Communications *	3.0
SPE-111	Intro to Speech Communication	3.0
CIS-094	Excel or	
CIS-093	Access *	2.0
BUS-065	Legal Terminology (Module)	1.0
BUS-061	Office Transcription *	2.0
	SEMESTER TOTALS	**17.0**
Second Semester		
PSY-271	Intr/Psychology	3.0
BUS-060	Automated Office Procedures (Module) * +++	3.0
BUS-079	Professional Development (Module) +++	3.0
BUS-081	Office Assistant Internship *	5.0
BUS-080	Office Professionals Seminar	1.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**67.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
++ Course only offered spring and summer semester
^ SOS 050 Human Relations and PSY 271 Introduction to Psychology cannot be used as a social science elective
+++ Course only offered spring semester

OFFICE ASSISTANT-LEGAL

(AAS.AALEG) ASSOCIATE IN APPLIED SCIENCE

Students will be highly trained to work in a variety of legal offices and court systems performing administrative support responsibilities. They will complete coursework in Microsoft Office software, notetaking, legal terminology, legal justice systems, desktop publishing, document formatting, and accounting. Students will also develop interpersonal and communication skills. The internship provides students with a realistic work experience.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
BUS-114	Advanced Formatting *	3.0
BUS-123	Notetaking +	4.0
--- ---	Social Science Elective ^	3.0
BUS-200	Legal Environ/Business	3.0
ENG-095	Business English	3.0
SFS-101	Strategies for Success or	
HED ---	Health Elective or	
PED ---	P.E. Elective	2.0
	SEMESTER TOTALS	**18.0**
Second Semester		
BUS-115	Processing Info * ++	3.0
CIS-160	Practical Software Application *	3.0
BUS-094	Business Math	3.0
BUS-095	Fundamentals of Accounting or	
BUS-151	Financial Accounting *	3.0
CIS-101	Internet Systems/Applications or	
CIS-099	Web Page Design * or	
CIS-093	Access *	2.0
BUS-065	Legal Terminology (Module)	1.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
CIS-056	Advanced Software Applications *	3.0
CIS-058	Specialized Software Apps	3.0
BUS-141	Business Communications *	3.0
CJS-150	Intro/Criminal Just	3.0
SPE-111	Intro to Speech Communication	3.0
BUS-061	Office Transcription	2.0
	SEMESTER TOTALS	**17.0**
Second Semester		
PSY-271	Intr/Psychology	3.0
BUS-060	Automated Office Procedures (Module) * +++	3.0
BUS-079	Professional Development (Module) +++	3.0
BUS-081	Office Assistant Internship *	5.0
BUS-080	Office Professionals Seminar	1.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**65.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
^ SOS 050 Human Relations and PSY 271 Introduction to Psychology cannot be used as a social science elective
++ Course only offered spring and summer semester
+++ Course only offered spring semester

OFFICE ASSISTANT-MEDICAL

(AAS.AAMED) ASSOCIATE IN APPLIED SCIENCE

Students will be highly trained to work in a variety of medical offices, hospitals, and clinics performing administrative support responsibilities. They will complete coursework in Microsoft Office software, notetaking, medical terminology, medical billing and coding, medical software, desktop publishing, document formatting, and accounting. Students will also develop interpersonal and communication skills. The internship provides students with a realistic work experience.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
BUS-114	Advanced Formatting *	3.0
BUS-123	Notetaking +	4.0
BIO-050	Basic Anatomy & Physiology	4.0
ENG-095	Business English	3.0
SFS-101	Strategies for Success or	
HED ---	Health Elective or	
PED ---	P.E. Elective	2.0
	SEMESTER TOTALS	**16.0**
Second Semester		
BUS-115	Processing Info * ++	3.0
CIS-160	Practical Software Application *	3.0
BUS-059	Medical Insurance and Coding	3.0
BUS-095	Fundamentals of Accounting or	
BUS-151	Financial Accounting *	3.0
AHE-041	Medical Terminology	3.0
--- ---	Social Science Elective ^	3.0
	SEMESTER TOTALS	**18.0**

SECOND YEAR

First Semester		Hours
CIS-056	Advanced Software Applications *	3.0
BUS-141	Business Communications *	3.0
CIS-058	Specialized Software Apps	3.0
SPE-111	Intro to Speech Communication	3.0
CIS-101	Internet Systems/Applications or	
CIS-099	Web Page Design * or	
CIS-093	Access *	2.0
BUS-063	Medical Transcription (Module 1) *	1.0
BUS-084	Adv Medical Transcription (Module 2) *	1.0
	SEMESTER TOTALS	**16.0**
Second Semester		
PSY-271	Intr/Psychology	3.0
BUS-060	Automated Office Procedures (Module) * +++	3.0
BUS-079	Professional Development (Module) +++	3.0
BUS-083	Office Assistant Internship-Medical *	5.0
BUS-080	Office Professionals Seminar	1.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**65.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
++ Course only offered spring and summer semester
^ SOS 050 Human Relations and PSY 271 Introduction to Psychology cannot be used as a social science elective
+++ Course only offered spring semester

OFFICE MANAGER

(AAS.OFMGT) ASSOCIATE IN APPLIED SCIENCE

Students will be highly trained to work in a variety of offices with managerial responsibilities, coordinating services, and supervising staff. They will complete coursework in Microsoft Office software, notetaking, desktop publishing, web design, management, document formatting, and accounting. Students will also develop interpersonal and communication skills. The internship provides students with a realistic work experience.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
BUS-123	Notetaking +	4.0
ENG-095	Business English	3.0
BUS-114	Advanced Formatting *	3.0
CIS-160	Practical Software Application *	3.0
BUS-142	Introduction to Business	3.0
SFS-101	Strategies for Success or	
HED ----	Health Elective or	
PED ---	P.E. Elective	2.0
	SEMESTER TOTALS	**18.0**
Second Semester		
BUS-094	Business Math	3.0
BUS-115	Processing Info * ++	3.0
BUS-251	Principles of Management	3.0
BUS-095	Fundamentals of Accounting or	
BUS-151	Financial Accounting *	3.0
CIS-094	Excel or	
CIS-071	Introduction to Networking	2.0
CIS-058	Specialized Software Apps	3.0
	SEMESTER TOTALS	**17.0**

SECOND YEAR

First Semester		Hours
CIS-056	Advanced Software Applications *	3.0
BUS-290	Human Resource Management *	3.0
ECO-231	Principles of Econ I (Macro)	3.0
CIS-101	Internet Systems/Applications or	
CIS-099	Web Page Design *	2.0
BUS-141	Business Communications *	3.0
SPE-111	Intro to Speech Communication	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
PSY-271	Intr/Psychology	3.0
BUS-060	Automated Office Procedures (Module) * +++	3.0
BUS-079	Professional Development (Module) +++	3.0
BUS-081	Office Assistant Internship *	5.0
BUS-080	Office Profesionals Seminar	1.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**67.0**

+ Course only offered fall semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
++ Course only offered spring and summer semester
+++ Course only offered spring semester

OFFICE RECEPTIONIST

(CRT.OFREC) CERTIFICATE

Students will be trained for an entry level office position. They will complete coursework in Microsoft Office software, keyboarding, document formatting, and accounting. Students will also develop interpersonal and communication skills. All courses apply toward one of the Office Assistant degrees.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
BUS-114	Advanced Formatting *	3.0
BUS-094	Business Math	3.0
CIS-160	Practical Software Application *	3.0
ENG-095	Business English	3.0
BUS-095	Fundamentals of Accounting or	
BUS-151	Financial Accounting *	3.0
CIS-094	Excel	2.0
	SEMESTER TOTALS	**17.0**
Second Semester		
BUS-115	Processing Info * ++	3.0
BUS-060	Automated Office Procedures (Module) * +++	3.0
BUS-079	Professional Development (Module) +++	3.0
BUS-141	Business Communications *	3.0
BUS-061	Office Transcription *	2.0
CIS-058	Specialized Software Apps or	
CIS-099	Web Page Design * or	
CIS-071	Introduction to Networking or	
CIS-101	Internet Systems/Applications	2.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**33.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
++ Course only offered spring and summer semester
+++ Course only offered spring semester

OFFICE SUPPORT SPECIALIST

(NDP.OFSK.GEN) CERTIFICATE

Students will complete coursework in Microsoft Office software, keyboarding, document formatting, and accounting to prepare for an office support position. All courses apply toward one of the Office Assistant degrees.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR

First Semester		Hours
BUS-114	Advanced Formatting *	3.0
CIS-160	Practical Software Application *	3.0
BUS-141	Business Communications * or	
BUS-079	Professional Development (Module) +++	3.0
BUS-095	Fundamentals of Accounting	3.0
--- ---	Electives **	6.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**18.0**

SUGGESTED ELECTIVES

CIS-058	Spec Software Applications	3.0
BUS-115	Processing Info * ++	3.0
CIS-056	Advanced Software Applications *	3.0
CIS-099	Web Page Design *	3.0
BUS-060	Auto Ofc Procedures (Module) * +++	3.0
BUS-079	Professional Development (Module) +++	3.0

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
** Electives must be approved by the Program Coordinator
++ Course only offered spring and summer semester

OFFICE SUPPORT SPECIALIST-MEDICAL

(NDP.OFSK.MED) CERTIFICATE

Students will complete coursework in Microsoft Office software, keyboarding, document formatting, and accounting to prepare for an office support position. In addition, students will take courses in medical terminology, medical insurance and coding, and medical transcription. All courses apply toward one of the Office Assistant degrees.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR

First Semester		Hours
BUS-114	Advanced Formatting *	3.0
CIS-160	Practical Software Application *	3.0
BUS-141	Business Communications * or	
BUS-079	Professional Development (Module) +++	3.0
AHE-041	Medical Terminology	3.0
BUS-059	Medical Insurance and Coding	3.0
BUS-063	Medical Transcription (Module 1) *	1.0
BUS-084	Adv Medical Transcription (Module 2) *	1.0
--- ---	Approved Elective **	1.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**18.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
** Electives must be approved by the Program Coordinator

SUGGESTED ELECTIVES

BIO-050 Basic Anatomy & Physiology	4.0

OFFICE SUPPORT SPECIALIST-MICROSOFT OFFICE

(NDP.OFSK.MOS) CERTIFICATE

Students will complete coursework that focuses on Microsoft Office software, keyboarding, and document formatting to prepare for an office support position. All courses apply toward one of the Office Assistant degrees.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
BUS-114	Advanced Formatting *	3.0
CIS-160	Practical Software Application *	3.0
BUS-141	Business Communications * or	
BUS-079	Professional Development (Module) +++	3.0
CIS-093	Access *	2.0
CIS-058	Specialized Software Apps or	
BUS-099	Computerized Accounting *	3.0
CIS-094	Excel	2.0
CIS-056	Advanced Software Applications *	3.0
	SEMESTER TOTALS	**19.0**
	TOTAL PROGRAM HOURS	**19.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester

PARAMEDICAL SERVICES

(AAS.PS) ASSOCIATE IN APPLIED SCIENCE

The associate degree in Paramedical Services is a two-year intensive program that includes classroom, skills laboratory, hospital, and field clinical experiences. The student is awarded an associate in applied science degree upon successful completion of the program and will be eligible to take the Illinois Department of Public Health EMT-Paramedic licensing examination or the National Registry of EMT's examination.

Completion of the associate degree in Paramedical Services does not guarantee licensure. There are some specific conditions that the Illinois Department of Public Health may refuse licensure. Please consult with Emergency Services Director to avoid licensure hindrances. This program is conducted in cooperation with Sarah Bush Lincoln Health Center, and is approved by the Illinois Department of Public Health, and the Division of EMS and Highway Safety. Program graduates are prepared for career opportunities in the field of emergency medical services to include urban and rural ambulance services and/or fire departments; industrial settings; clinical settings. Paramedical Services is a special admissions program that starts in the spring semester. Students must complete a file with Emergency Medical Services by October 1 of the previous year to enter the Paramedical Services Program. Required documents are: immunizations as required by the Illinois Department of Public Health for Healthcare Providers, current AHA BLS CPR training for the Healthcare Provider, current driver's license or state of Illinois picture ID, high school diploma or GED, physical exam, background check, and drug test. Paramedic students must obtain EMT-Basic licensure, and successfully complete Anatomy and Physiology course BIO 050 or BIO 225 prior to acceptance into the Paramedical program. In addition to tuition and fees, costs for the EMS Paramedical services program include textbooks, supplies, clinical attire, and transportation to clinical sites.

Upon completion of the degree, there will be additional expenses including licensure application fee and testing fee.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
EMS-050	Emergency Medical Tech-Basic *	6.0
BIO-225	Human Ana/Phys I *	4.0
PSY-279	Human Dev/Life Span	3.0
AHE-055	Math for Meds	2.0
	SEMESTER TOTALS	**15.0**
Second Semester		
EMS-056	Paramedical Services I * +++	6.0
EMS-065	Paramedic Skills I * +++	2.0
BIO-226	Human Ana/Phys II *	4.0
HED-290	Disease Processes *	2.0
ENG-120	Composition I *	3.0
	SEMESTER TOTALS	**17.0**
Summer Term		
EMS-057	Paramedical Services II * +++	9.0
	SEMESTER TOTALS	**9.0**

SECOND YEAR

First Semester		Hours
EMS-062	EMS Pharmacology * +	2.0
EMS-058	Paramedical Services III +	10.0
PSY-271	Intr/Psychology	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
EMS-059	Paramedical Services IV * +++	10.0
EMS-066	Paramedic Skills II * +++	2.0
	SEMESTER TOTALS	**12.0**
	TOTAL PROGRAM HOURS	**68.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
+ Course only offered fall semester

PARAPROFESSIONAL EDUCATION

(CRT.PRPRO) CERTIFICATE

This program is designed to provide students with the knowledge base and practical skills necessary for assisting with children and teachers in a public school setting. The certificate option is the first year of the two-year associate in applied science degree in Paraprofessional Education. Students are encouraged to check with their local school district on specific college education requirements needed in the field of paraprofessional education.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
ENG-120	Composition I *	3.0
EDU-100	Introduction to Education ^^^	3.0
LIT-150	Children's Literature *	3.0
ECE-095	Creative Activities/Children	4.0
MAT-118	Math for Elem Teachers I *	3.0
ECE-110	Child Behavior Management	3.0
	SEMESTER TOTALS	**19.0**
Second Semester		
EDU-103	Teaching/Learning W/Technology	3.0
PSY-274	Child Development	3.0
SPE-111	Intro to Speech Communication	3.0
EDU-190	Introduction/Special Education	3.0
MAT-218	Math for Elem Teachers II *	3.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**34.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
^^^ Course requires a 30-hour practicum experience in addition to classroom lecture hours

PARAPROFESSIONAL EDUCATOR

(AAS.PRPRO) ASSOCIATE IN APPLIED SCIENCE

This program is designed to provide students with the knowledge base and practical skills necessary for assisting teachers in a public school setting. This degree is suited for individuals who desire a career working with children in an educational learning environment. In response to the No Child Left Behind Act, this degree in Paraprofessional Education meets the recommended curriculum outlined by the Illinois State Board of Education.

ECE 120 and 125 must be taken the same semester.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
EDU-100	Introduction to Education ^^^	3.0
LIT-150	Children's Literature *	3.0
EDU-103	Teaching/Learning W/Technology	3.0
MAT-118	Math for Elem Teachers I *	3.0
ECE-110	Child Behavior Management	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
PSY-274	Child Development	3.0
SPE-111	Intro to Speech Communication	3.0
EDU-190	Introduction/Special Education	3.0
MAT-218	Math for Elem Teachers II *	3.0
ECE-083	Instructional Methods	3.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
BIO-100	Bio Science I	4.0
ENG-121	Composition II	3.0
ECE-102	Health/Safety/Nutri/Yng Child	3.0
PSY-271	Intr/Psychology	3.0
ECE-095	Creative Activities/Children	4.0
	SEMESTER TOTALS	**17.0**
Second Semester		
HUM-150	Humanities Through the Arts	3.0
EDU-200	Educational Psychology	3.0
EDU-210	Diversity/Schools & Societies	3.0
ECE-120	Field Experience Seminar *	1.0
ECE-125	Field Experience *	0.5
--- ---	Electives ^^	4.0
	SEMESTER TOTALS	**14.5**
	TOTAL PROGRAM HOURS	**64.5**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
^^^ Course requires a 30-hour practicum experience in addition to classroom lecture hours
^^ Consult Academic Advisor for appropriate course

PHYSICAL THERAPIST ASSISTANT

(AAS.PTA) ASSOCIATE IN APPLIED SCIENCE

Lake Land Partnerships

The Physical Therapist Assistant (PTA) is a skilled health employee working under the supervision of a licensed physical therapist to provide direct care to patients in a variety of health care settings. The professional care given by the PTA focuses on patients of all ages with temporary or permanent functional limitations due to illness, disease or injury. The PTA works closely with patients to restore function, prevent or relieve pain, prevent disability and restore physical coordination, strength and mobility through therapeutic exercise and the application of modalities. Physical therapy is physically demanding work. Students need to have good general health and the strength, stamina and flexibility necessary to carry out assignments.

Housed at the Lake Land College Kluthe Center for Higher Education and Technology in Effingham, Illinois, the PTA program is a five consecutive semester program which includes classroom, skills laboratory and clinical experience in various healthcare facilities. Once admitted to the program, the student must progress through the courses corresponding to the curriculum model. A "C" grade is required in all PTA curriculum courses for progression/completion.

The PTA program at Lake Land College is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE, 1111 North Fairfax Street, Alexandria, Virginia 22314; telephone: 703-706-3245; email: accreditation@apta.org; website: capteonline.org.

The PTA program was initially granted accreditation in 1994, and has been granted reaccreditation in 1999 and 2008. The next reaccreditation site visit is scheduled for 2018. Students who have successfully completed the program will be eligible to sit for the National Board Examination for Physical Therapist Assistants.

The PTA program is competitive and selects 24 students for each fall class. PTA application requirements include admission to Lake Land College; completion of the PTA program application form (obtained from the PTA website); completion of the college placement assessment tests (PTA applicants are eligible to take the college placement assessment tests more than twice); and completion of the one (1) Biology prerequisite course (one year high school biology/zoology/A & P, or Lake Land College BIO 050, Basic Anatomy and Physiology; or BIO 100, Bio Science I; or BIO 225, Human Anatomy and Physiology I; or BIO 226, Human Anatomy and Physiology II; or equivalent with a "C" or better within the past five (5) years. It is the responsibility of students to see that their application file is completed by March 1 for consideration for the fall semester. In addition to tuition and fees, costs for the PTA program include: physical examination and immunization, workbooks, criminal background check, drug testing, clinical attire, transportation to clinical experiences (attempts will be made to keep travel distance no greater than 75 miles one way or 1.5 hours) and the board exam/license fee.

Download the PTA Selection Process Sheet and Checklist for complete application procedure, scoring rubric and application procedure from the college website.

See career track program Physical Therapist Assistant Track (AAS.PTA.TRK) when selecting a major.

Lake Land College has cooperative agreements in place with Parkland College, Richland Community College and Danville Area Community College.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR		
First Semester		**Hours**
PTA-080	Fundamentals of PTA I * +	4.0
PTA-081	PTA Clinical Practicum I * +	1.0
ENG-120	Composition I	3.0
BIO-225	Human Ana/Phys I *	4.0
PHY-110	Concepts of Physics	4.0
	SEMESTER TOTALS	**16.0**
Second Semester		
PTA-082	Fundamentals of PTA II * +++	6.0
BIO-226	Human Ana/Phys II *	4.0
PED-244	Kinesiology *	4.0
PSY-271	Intr/Psychology	3.0
	SEMESTER TOTALS	**17.0**
Summer Term		
PTA-085	PTA Clinical Practicum III * ++++	3.0
	SEMESTER TOTALS	**3.0**

SECOND YEAR		
First Semester		**Hours**
PTA-094	Fundamentals of PTA III * +	6.0
PTA-095	Orthopedic Concepts & Appl * +	4.0
PTA-097	PTA Clinical Practicum IV * +	2.0
HED-178	Responding to Emergencies	2.0
SPE-111	Intro to Speech Communication	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
PTA-096	Fundamentals of PTA IV * +++	5.0
PTA-093	Pathology for PTA * +++	2.0
PTA-098	PTA Seminar * +++	2.0
PTA-099	PTA Clinical Practicum V * +++	4.0
PSY-275	Psych of Maturity and Old Age	3.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**69.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester
++++ Course offered in summer term only

PHYSICAL THERAPIST ASSISTANT - TRACK

(AAS.PTA.TRK)

The Physical Therapist Assistant Track prepares the student for acceptance into the Physical Therapist Assistant (PTA) program. Applicants are instructed to begin their PTA application with the AAS.PTA.TRK major code. Students are counseled on admission requirements into the PTA Program as well as preparatory course work that will increase their success rate once they are accepted into the PTA program. Once accepted into the PTA program, the major code will be changed to AAS.PTA.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

PRACTICAL NURSING

(CRT.PN) CERTIFICATE

The Practical Nursing program is a three, consecutive semester program that includes classroom, skills laboratory, and clinical experience in various healthcare agencies. Upon successful completion of the program, the graduate may apply to take the National Council Licensure Examination for Practical Nursing (NCLEX-PN). Upon successful completion of the NCLEX-PN, the graduate may apply for PN licensure. Completion of the PN program does not guarantee PN licensure. The Department of Financial and Professional Regulations (IDFPR) may refuse to issue a license, if a candidate has a criminal history. Please consult with the Director of the Lake Land College PN program to avoid license application hindrances.

The program is approved by the IDFPR and accredited by the Accreditation Commission for Education in Nursing (ACEN), 3343 Peachtree Rd NE, Suite 850, Atlanta, GA 30326; Phone: 404-975-5000, Fax: 404-975-5020.

Applicants seeking admission into the Practical Nursing program must have a completed application file in the Nursing Department by March 1, or the preceding business day if March 1 falls on a weekend. Applicants will be notified in writing of acceptance/denial within six weeks of the deadline.

Download the PN checklist from the website for the complete application.

Admission Criteria

The following procedures must be satisfied before admission to the Lake Land College PN Program can be considered.

1. Complete an Intent to Enroll for Lake Land College and submit to Admissions & Records. (Note: acceptance to the college does not guarantee admission into the PN program.)

2. Complete a Nursing Department Intent form indicating interest in the Practical Nursing Program. These are available online, in the Nursing Department, or in Counseling Services.

3. Achieve satisfactory scores on the Lake Land College Placement test, Compass, or ACT to determine eligibility to take the HESI A2 Admission assessment exam. See admission checklist for details.

4. Achieve a satisfactory score on the HESI A2 Admission assessment exam. A minimum acceptable score of 70 on the exam is required. The most recent exam scores will be used for admissions. Dates for the exam are available from the Nursing Department. To ensure complete application, a satisfactory score (70 or above) must be obtained prior to the March 1 application dealine. Test scores are valid for five years.

5. Admission criteria and procedures are in accordance with Illinois law. If there are more qualified applicants than spaces available in the program, admission is competitive and selective using an objective formula approved by the Nursing Department. Selection criteria includes the date on the nursing intent form, academic achievement, and HESI A2 Admission assessment exam raw score.

Note: State regulations require that qualified in-district residents must be accepted before any consideration can be given to out-of-district applicants.

6. High school students who successfully complete Partnership for Career and College Success (PCCS) curriculum should consult with the Director of Nursing regarding enrollment requirements and procedures.

Acceptance

Acceptance is tentative upon completion/receipt of the following:

1. A completed Lake Land College Practical Nursing Program physical exam, proof of immunizations, and current CPR certification to the Lake Land College Nurse's Office. (Note: CPR and immunizations must remain current throughout the program).

2. Complete background check and drug screening.

3. Attend the nursing program orientation during the summer preceding PNC 050. Students will be contacted regarding the orientation date.

4. Maintain an overall grade point average of 2.00 (i.e. good academic standing). This is a requirement to progress/graduate from the PN program.

Cost In addition to tuition and fees, costs for the PN program include: textbooks, uniforms, supplies, physical examination and immunizations, background check, drug screening and transportation to hospital clinical experiences. Additional expenses upon successful completion of the program include licensure application fees, NCLEX-PN test fees, and PN license fees.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
PNC-049	Found of Nursing +	6.0
PNC-050	Practical Nursing I +	10.0
	SEMESTER TOTALS	**16.0**
Second Semester		
PNC-052	Practical Nursing II +++	15.0
PNC-053	Basic Pharmacology I +++	2.0
	SEMESTER TOTALS	**17.0**
Summer Term		
PNC-054	Practical Nursing III	7.0
PNC-055	Basic Pharmacology II	1.0
	SEMESTER TOTALS	**8.0**
	TOTAL PROGRAM HOURS	**41.0**

+ Course only offered fall semester
+++ Course only offered spring semester

PRACTICAL NURSING - TRACK

(CRT.PN.TRK)

The Practical Nursing Certificate Track (CRT.PN.TRK) prepares the student for acceptance into the Practical Nursing (PN) program, which begins in the fall semester only. The nursing programs at Lake Land College are competitive, special admission program. Students should follow the application process carefully. Students are counseled regarding admission requirements into the Practical Nursing program as well as preparatory course work that may increase their success once they are accepted into the PN program. Prerequisite course work is not required for acceptance. Upon acceptance into the PN program, the director will change the program code to (CRT.PN).

Interested students should submit the Intent to Enroll form and list their major CRT.PN.TRK. Then, follow the PN Checklist carefully for instructions about the application procedure.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

PROFESSIONAL SALES

(CRT.SALES) CERTIFICATE

The certificate in Professional Sales prepares students for entry level positions in sales. Employees can use this program to prepare for upward mobility and/or update sales and marketing skills. All courses satisfactorily completed in this certificate program will apply to the associate in applied science degree with a major in management or marketing.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
BUS-090	Prin of Retailing ++++ or	
BUS-142	Introduction to Business	3.0
BUS-247	Principles of Marketing	3.0
BUS-092	Principles of Selling	3.0
BUS-141	Business Communications *	3.0
CIS-160	Practical Software Application *	3.0
BUS-094	Business Math	3.0
--- ---	Career Elective **	3.0
--- ---	Career Elective **	3.0
	SEMESTER TOTALS	**24.0**
	TOTAL PROGRAM HOURS	**24.0**

++++ Course offered in summer term only
* There are prerequisites, course requisites, or minimum placement test scores for this course.
** Electives must be approved by the Program Coordinator

PROGRAMMABLE LOGIC CONTROLLERS

(NDP.PLC) CERTIFICATE

This program is designed for students who already have a background in electrical or electronic skills and wish to obtain specialized skills in PLC programming.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR		
First Semester		**Hours**
EET-086	Prog Logic Controllers I *	2.0
EET-087	Prog Logic Controllers II *	2.0
EET-075	HMI-Human Machine Interface *	2.0
	SEMESTER TOTALS	**6.0**
	TOTAL PROGRAM HOURS	**6.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.

PUBLIC SAFETY TELECOMMUNICATOR

(NDP.PST) CERTIFICATE

The Lake Land College Public Safety Telecommunicator Certification Program is designed with the assistance of 911 Dispatch/Telecommunicator Personnel and a suggested program by leaders in public safety communication. The program is modeled from an Illinois Public Safety Telecommunicator Certification Program designed by the joint effort of the Association of Public Safety Communications Officials (APCO) and the National Emergency Number Association (NENA). The suggested certification has been approved by the Public Safety Telecommunicator Training Standards and Certification Committee (PSTTSCI) for the purpose of providing the students of the program with a basic understanding of public safety communications including field internship, and courses directly related to skills and knowledge required to successfully acquire and maintain employment as a public safety telecommunicator. It is designed to provide a student who successfully completes the certification program with the basic skills and knowledge that will be required by public safety telecommunicator dispatch centers. Completion of this program does not guarantee certification by the state of Illinois, or employment by a public safety telecommunicator agency.

FIRST YEAR		
First Semester		**Hours**
BUS-113	Keyboarding	3.0
CIS-160	Practical Software Application	3.0
EMS 091	Public Safety Telecommunicator	3.0
HED-178	Responding to Emergencies	2.0
SPE-200	Interpersonal Communication	3.0
PSY-271	Intr/Psychology	3.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**17.0**

RADIO BROADCASTING

(CRT.RBRD) CERTIFICATE

Students will learn how to be a multi-skilled broadcaster capable of performing a wide variety of tasks performed at a radio station by participating in an intensive, hands-on program. Students will gain knowledge of sales, announcing, radio operations, and the practical/theoretical aspects of radio broadcasting. All coursework in the Radio Broadcasting certificate can be applied to an associate in applied science degree in Radio/TV Broadcasting.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
RTV-150	Introduction to Broadcasting +	3.0
RTV-155	Radio TV Announcing +	3.0
RTV-070	Radio Production Lab * +	5.0
SPE-111	Intro to Speech Communication	3.0
	SEMESTER TOTALS	**14.0**
Second Semester		
RTV-160	Radio Station Operation +++	5.0
RTV-165	Broadcast Writing +++	4.0
RTV-175	Broadcast Sales +++	3.0
RTV-185	Advanced Radio Production * +++	4.0
--- ---	Career Elective	1.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**31.0**

+ Course only offered fall semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester

RADIO/TV BROADCASTING

(AAS.RTV) ASSOCIATE IN APPLIED SCIENCE

Radio/TV Broadcasting provides students with the skills necessary for positions of employment in local and regional radio and television stations. Students receive hands-on training with much of the same equipment found in today's broadcast industry. Upon completion of a Radio/TV degree, students will be able to write news, sports, commercials and promotional announcements for use on radio and television; to function as radio/television announcers; and to operate state-of-the-art digital audio systems, a non-linear digital video editing system and a radio control console. Students will also be proficient in the effective techniques of radio and television sales and will be able to operate an assortment of video production equipment. For those interested, training in sports play-by-play is also available. Experience is obtained on the college FM stereo radio station, through work in the non-broadcast television studio, by using television field equipment and through the use of audio and video digital editing systems. Internships at local radio and television stations are available. For those interested in transferring to Southern Illinois University at Carbondale or Eastern Illinois University, a specific curriculum can be designed.

For students who want to transfer: A program can be designed for a student who wants to transfer to a university with an emphasis in radio and television. If a student completes the program, the Illinois Articulation Initiative (IAI) General Education Requirements are fulfilled. Classes in the Radio-TV major are accepted as an equivalent, general elective in the major, or general elective. Following completion, a student receives an associate in applied science degree with all general education requirements satisfied.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
RTV-150	Introduction to Broadcasting +	3.0
RTV-155	Radio TV Announcing +	3.0
ENG-120	Composition I *	3.0
SPE-111	Intro to Speech Communication	3.0
PSY-271	Intr/Psychology	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
RTV-160	Radio Station Operation +++	5.0
RTV-165	Broadcast Writing +++	4.0
ESC-102	Weather and Climate	4.0
--- ---	Electives	6.0
	SEMESTER TOTALS	**19.0**

SECOND YEAR

First Semester		Hours
RTV-180	Basic TV Production +	3.0
RTV-070	Radio Production Lab * +	5.0
ECO-130	The American Economy or	
ECO-231	Principles of Econ I (Macro)	3.0
--- ---	Electives	6.0
	SEMESTER TOTALS	**17.0**
Second Semester		
RTV-175	Broadcast Sales +++	3.0
RTV-185	Advanced Radio Production * +++	4.0
HIS-156	History of the U.S. II	3.0
--- ---	Elective	3.0
SFS-101	Strategies for Success or	
HED ---	Health Elective or	
PED ---	P.E. Elective	2.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**66.0**

SUGGESTED ELECTIVES

RTV-072	Fall Sportscasting +	1.0
RTV-073	Spring Sportscasting +++	2.0
RTV-082	Fall Athletic Announcing +	1.0
RTV-083	Spring Athletic Announcing +++	2.0
POS-160	American National Government	3.0
SPE-213	Intro/Group Discussion * +	3.0
CIS-099	Web Page Design *	3.0
CIS-066	Digital Video Production +	3.0

+ Course only offered fall semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester

RENEWABLE ENERGY

(AAS.RNRG) ASSOCIATE IN APPLIED SCIENCE

This program prepares students for entry level positions into the field of renewable energy technicians and technical maintenance. Emphasis is placed on "green" technologies including electricity, physics, chemistry, wind, photovoltaics, solar thermal, bioenergy, energy efficiency, and smart grid technology. There is a critical skill shortage of trained workers knowledgeable with issues relating specifically to renewable energy and who can troubleshoot renewable energy systems.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
EET-040	Basic Electronics	2.5
EET-050	Electric Circuits I *	2.5
HED-178	Responding to Emergencies	2.0
TEC-050	Technical Math I	2.0
TEC-052	Technical Math II *	2.0
TEC-057	Intro to Renewable Energy	3.0
WND-040	Intro to Wind Technology	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
PHY-110	Concepts of Physics	4.0
TEC-054	Technical Math III *	2.0
TEC-056	Technical Math IV *	2.0
ENG-120	Composition I *	3.0
TEC-058	Alternative Energy	3.0
EET-068	Photovoltaic Systems *	3.0
	SEMESTER TOTALS	**17.0**

SECOND YEAR

First Semester		Hours
SPE-111	Intro to Speech Communication	3.0
CHM-111	Concepts of Chemistry	4.0
TEC-064	Bioenergy	3.0
TEC-067	Smart Grid Introduction	3.0
TEC-066	Resource Sustainability	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ECO-231	Principles of Econ I (Macro)	3.0
TEC-063	Electric Power Distribution	3.0
--- ---	Technical Electives	9.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**65.0**

SUGGESTED ELECTIVES

EET-065	Home Technology Integration	3.0
EET-070	Photovoltaic Technician	2.0
WND-041	Wind Technology Maintenance I *	3.0
WND-042	Twr Rescue & Competent Climber *	0.5
TEC-059	Weatherization Tech/Installer	3.0
TEC-061	Solar Energy	3.0
TEC-062	Solar Thermal Applications	2.0
TEC-064	Bioenergy	3.0
TEC-065	Energy Efficiency	3.0
TEC-067	Smart Grid Introduction	3.0
TEC-068	Sp Topics Renewable Energy	0.5
TEC-069	Site Assessment/Renew Energy	2.0
CAD-063	Wind Energy Design	3.0
CAD-056	CAD I	2.0
EET-069	Residential Wiring I *	3.0
EET-072	Industrial Control I *	2.0
IND-044	Fluid Power	3.0
IND-062	Rigging and Hoisting	1.0
MET-043	Motors and Generators	2.5
MTT-050	Intro to Machining Procedures	3.0
TEC-040	Blueprint Reading/Industry I	2.5
IND-042	Pipefitting Procedures	1.0
WEL-056	Metal Cutting and Fabrication *	2.0
EET-086	Prog Logic Controllers I *	2.0

* There are prerequisites, course requisites, or minimum placement test scores for this course.

RENEWABLE ENERGY MANAGEMENT

(CRT.REMG) CERTIFICATE

This program prepares students for entry level into the field of renewable energy sales, marketing, management, and administration. Emphasis is placed on "green" technologies including electricity, wind, photovoltaics, solar thermal, bioenergy, energy efficiency, and smart grid technology. There is a critical skill shortage of trained workers knowledgeable with issues relating specifically to renewable energy and who can act in support roles.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR

First Semester		Hours
BUS-142	Introduction to Business	3.0
ENG-120	Composition I * or	
BUS-141	Business Communications *	3.0
ECO-231	Principles of Econ I (Macro) or	
BUS-247	Principles of Marketing	3.0
TEC-057	Intro to Renewable Energy	3.0
	Technical Elective **	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
TEC-053	Technical Project Management	3.0
ECO-232	Prin Economics II (Micro) *	3.0
BUS-251	Principles of Management or	
SPE-111	Intro to Speech Communication	3.0
TEC-058	Alternative Energy	3.0
	Technical Electives	6.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**33.0**

SUGGESTED ELECTIVES

EET-065	Home Technology Integration	3.0
EET-070	Photovoltaic Technician	2.0
WND-040	Intro to Wind Technology	3.0
WND-041	Wind Technology Maintenance I *	3.0
WND-042	Twr Rescue & Competent Climber *	0.5
TEC-057	Intro to Renewable Energy	3.0
TEC-058	Alternative Energy	3.0
TEC-059	Weatherization Tech/Installer	3.0
TEC-061	Solar Energy	3.0
TEC-062	Solar Thermal Applications	2.0
TEC-063	Electric Power Distribution *	3.0
TEC-064	Bioenergy	3.0
TEC-065	Energy Efficiency	3.0
TEC-066	Resource Sustainability	3.0
TEC-067	Smart Grid Introduction	3.0
TEC-068	Sp Topics Renewable Energy	0.5
TEC-069	Site Assessment/Renew Energy	2.0
CAD-063	Wind Energy Design	3.0
CAD-056	CAD I	2.0
EET-069	Residential Wiring I *	3.0
EET-072	Industrial Control I *	2.0
EET-086	Prog Logic Controllers I *	2.0
IND-044	Fluid Power	3.0
IND-062	Rigging and Hoisting	1.0
MET-043	Motors and Generators *	2.5
MTT-050	Intro to Machining Procedures	3.0
TEC-040	Blueprint Reading/Industry I	2.5
IND-042	Pipefitting Procedures	1.0
WEL-056	Metal Cutting and Fabrication *	2.0

* There are prerequisites, course requisites, or minimum placement test scores for this course.
** Electives must be approved by the Program Coordinator

RENEWABLE ENERGY TECHNICIAN

(CRT.RENEW) CERTIFICATE

This program prepares students for entry level positions into the field of renewable energy technicians and technical maintenance. Emphasis is placed on "green" technologies including electricity, physics, chemistry, wind, photovoltaics, solar thermal, bioenergy, energy efficiency, and smart grid technology. There is a critical skill shortage of trained workers knowledgeable with issues relating specifically to renewable energy and who can troubleshoot renewable energy systems.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR

First Semester		Hours
TEC-057	Intro to Renewable Energy	3.0
IND-044	Fluid Power	3.0
EET-040	Basic Electronics	2.5
EET-050	Electric Circuits I *	2.5
TEC-048	Applied Shop Computations	3.0
TEC-043	Industrial Safety	1.0
WND-040	Intro to Wind Technology	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
EET-072	Industrial Control I	2.0
IND-052	Electrical Installation Proc * +++	2.5
EET-086	Prog Logic Controllers I * +++	2.0
--- ---	Technical Elective	2.0
EET-068	Photovoltaic Systems *	3.0
WND-041	Wind Technology Maintenance I *	3.0
WND-042	Twr Rescue & Competent Climber	0.5
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**33.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester

SUGGESTED ELECTIVES

BUS-089	Small Business Management	3.0
CAD-056	CAD I	2.0
EET-069	Residential Wiring I	3.0
EET-070	Photovoltaic Technician	2.0
EET-075	HMI-Human Machine Interface	2.0
IND-054	Trouble Shooting & Prev Maint	3.0
IND-062	Rigging and Hoisting	1.0
MET-043	Motors and Generators	2.5
WEL-057	Welding Fundamentals	2.5

RESIDENTIAL WIRING

(NDP.RSWR) CERTIFICATE

The Residential Wiring certificate is designed to prepare graduates for employment in residential construction occupations. The program focuses on the fundamentals of direct current and alternating current, technical mathematics, safety and residential wiring procedures according to the National Electrical Code®. Graduates of this program will function as skilled technicians performing installation, troubleshooting, maintenance, and repair of electrical systems associated with residential power.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR		
First Semester		**Hours**
TEC-050	Technical Math I (Module 1)	2.0
TEC-052	Technical Math II (Module 2) *	2.0
IND-046	Concepts of Electricity +	3.0
	SEMESTER TOTALS	**7.0**
Second Semester		
TEC-043	Industrial Safety	1.0
EET-069	Residential Wiring I * +++	3.0
	SEMESTER TOTALS	**4.0**
	TOTAL PROGRAM HOURS	**11.0**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester

SUSTAINABLE ENERGY

(NDP.SNRG) CERTIFICATE

The Sustainable Energy certificate is a broad survey of the emerging technologies for renewable and alternative energy and the potential for their development and use. Students will be able to describe the types of renewable and alternative energy, how it is generated, and the potential for energy development. Completing the certificate will develop a foundational understanding of renewable energy that can be used for more advanced coursework or to gain entry-level employment in the emerging green technology field.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR		
First Semester		**Hours**
TEC-057	Intro to Renewable Energy	3.0
	SEMESTER TOTALS	**3.0**
Second Semester		
TEC-058	Alternative Energy	3.0
	SEMESTER TOTALS	**3.0**
	TOTAL PROGRAM HOURS	**6.0**

TV FIELD/STUDIO PRODUCTION

(NDP.TVFS) CERTIFICATE

Students will gain experience with the equipment used in studio and on-location television productions and learn to work as a director, non-linear editor, audio engineer, floor director, and camera operator. All coursework in this certificate program can be applied to an associate in applied science degree in Radio/TV Broadcasting.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
RTV-150	Introduction to Broadcasting +	3.0
RTV-155	Radio TV Announcing +	3.0
RTV-180	Basic TV Production +	3.0
	SEMESTER TOTALS	**9.0**
Second Semester		
RTV-165	Broadcast Writing +++	4.0
SPE-111	Intro to Speech Communication	3.0
--- ---	Advanced Study-Advanced TV Production **	3.0
--- ---	Career Elective	3.0
	SEMESTER TOTALS	**13.0**
	TOTAL PROGRAM HOURS	**22.0**

+ Course only offered fall semester
+++ Course only offered spring semester
** Electives must be approved by the Program Coordinator

WELDING

(AAS.WEL) ASSOCIATE IN APPLIED SCIENCE

This program provides experiences which enable students to develop competencies necessary for employment in welding and other related occupations. Emphasis throughout the program is placed on developing skills in the following areas: safety, metal identification, oxy-acetylene welding, metal cutting processes, shielded metal arc welding, gas metal arc welding, gas tungsten arc welding (including stainless steel and aluminum), machining, fluid power, mechanical drives, and blueprint reading. Students will gain valuable hands-on experience as they complete a minimum of 375 clock hours of Supervised Occupational Experience at an industry location.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

FIRST YEAR

First Semester		Hours
TEC-048	Applied Shop Computations	3.0
TEC-040	Blueprint Reading/Industry I	2.5
TEC-043	Industrial Safety	1.0
TEC-070	Properties of Metal	2.5
WEL-056	Metal Cutting and Fabrication *	2.0
WEL-057	Welding Fundamentals	2.5
	SEMESTER TOTALS	**13.5**
Second Semester		
WEL-047	Shielded Metal Arc Welding I *	2.0
WEL-048	Shielded Metal Arc Welding II *	3.0
WEL-058	Gas Metal Arc Welding I *	2.0
WEL-059	Gas Metal Arc Welding II *	3.0
WEL-061	Gas Tungsten Arc Welding *	3.0
MET-045	Mechanical Drive Systems	2.0
	SEMESTER TOTALS	**15.0**
Summer Term		
WEL-074	Welding S.O.E.	5.0
	SEMESTER TOTALS	**5.0**

SECOND YEAR

First Semester		Hours
WEL-055	Pipefitting & Welding *	3.0
MTT-050	Intro to Machining Procedures	3.0
SOS-050	Human Relations	2.0
IND-044	Fluid Power	3.0
ENG-050	Writing for Industry	3.0
--- ---	Social Science Elective	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
WEL-060	Gas Metal Arc Welding III *	3.0
WEL-053	Gas Tung Arc Welding/Alum * +++	4.0
WEL-054	Gas Tung Arc/Ss * +++	2.0
IND-062	Rigging and Hoisting +++	1.0
SPE-111	Intro to Speech Communication	3.0
HED-178	Responding to Emergencies	2.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**65.5**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester

WELDING TECHNOLOGY

(CRT.WEL) CERTIFICATE

This program provides experiences which enable students to develop competencies necessary for employment in and/or continued education in welding. Emphasis throughout the program is placed on developing skills in the following areas: safety, metal identification, oxy-acetylene welding, metal cutting processes, shielded metal arc welding, gas metal arc welding, gas tungsten arc welding, and blueprint reading.

Program requirements may change over time. Specific degree/graduation requirements are determined by a degree audit.

Gainful employment - For more information regarding related occupations, graduation rates and program costs, view the Gainful Employment information provided on website.

FIRST YEAR		
First Semester		**Hours**
TEC-048	Applied Shop Computations	3.0
WEL-057	Welding Fundamentals	2.5
TEC-043	Industrial Safety	1.0
TEC-070	Properties of Metal	2.5
TEC-040	Blueprint Reading/Industry I	2.5
WEL-056	Metal Cutting and Fabrication *	2.0
	SEMESTER TOTALS	**13.5**
Second Semester		
WEL-047	Shielded Metal Arc Welding I *	2.0
WEL-048	Shielded Metal Arc Welding II *	3.0
WEL-058	Gas Metal Arc Welding I * +++	2.0
WEL-059	Gas Metal Arc Welding II *	3.0
WEL-061	Gas Tungsten Arc Welding *	3.0
	SEMESTER TOTALS	**13.0**
	TOTAL PROGRAM HOURS	**26.5**

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester

ASSOCIATE IN LIBERAL STUDIES

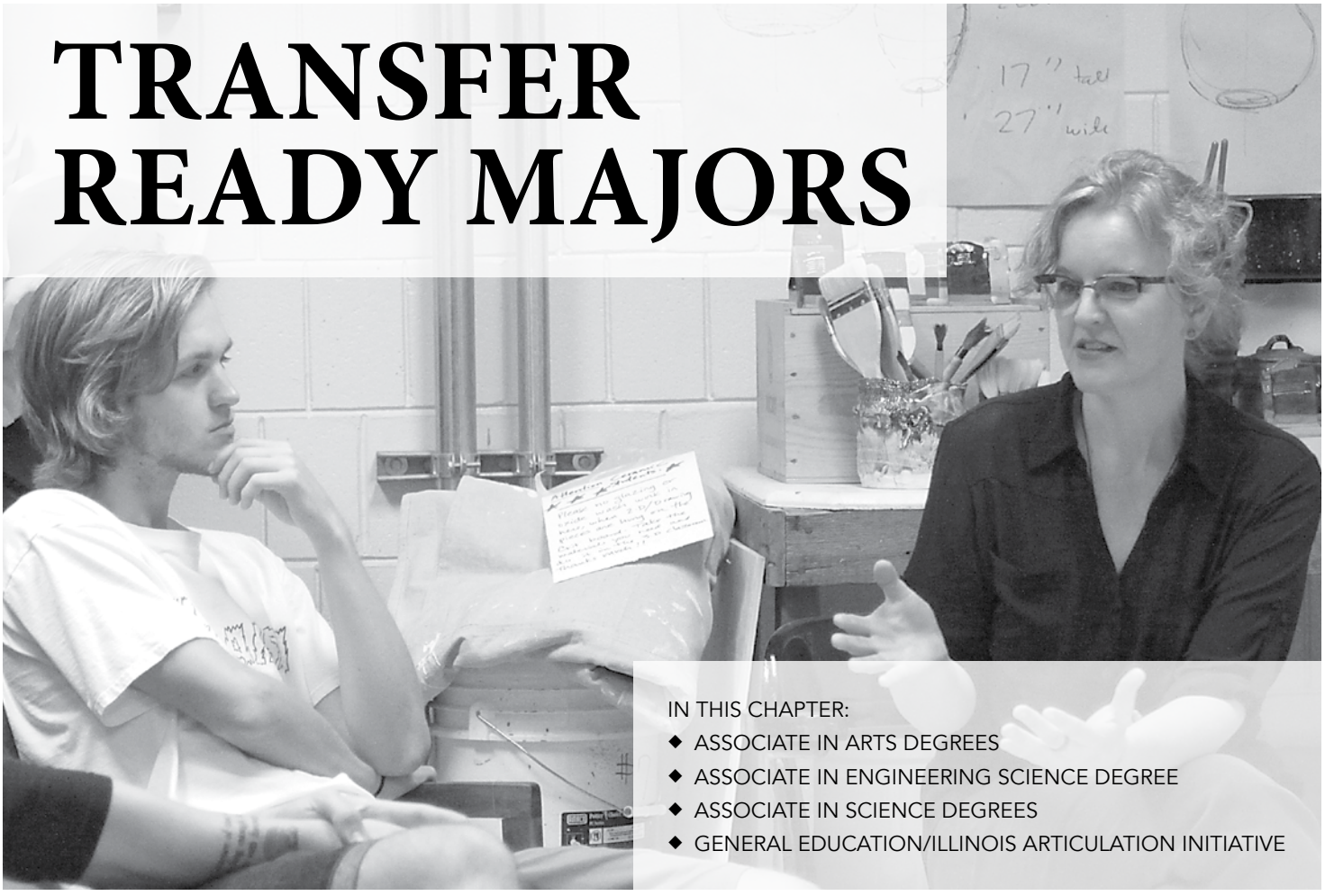
(ALS.LIB) ASSOCIATE IN LIBERAL STUDIES

The Associate in Liberal Studies degree offers a flexible program to students who wish to combine traditional coursework with a variety of learning experiences to pursue their personal and professional goals. This degree has a minimal formal structure to ensure students acquire a basic liberal education. Remaining degree requirements may be satisfied through traditional coursework, independent study, proficiency examinations or life experience credit. Contact the ALS advisor for additional information and to identify specific courses that meet general education and elective requirements.

DEGREE REQUIREMENTS

GENERAL EDUCATION COURSEWORK HOURS	
Communications Skills	6
Mathematics or Science	7
Social Science	3
Humanities	3
Humanities or Social Science	3
GENERAL EDUCATION TOTAL	**22**
ELECTIVES	**42**
TOTAL PROGRAM HOURS	**64**

TRANSFER READY MAJORS



IN THIS CHAPTER:

- ASSOCIATE IN ARTS DEGREES
- ASSOCIATE IN ENGINEERING SCIENCE DEGREE
- ASSOCIATE IN SCIENCE DEGREES
- GENERAL EDUCATION/ILLINOIS ARTICULATION INITIATIVE

ASSOCIATE IN ARTS DEGREES

ASSOCIATE IN SCIENCE DEGREES

ASSOCIATE IN ENGINEERING SCIENCE DEGREE

GENERAL EDUCATION

COURSE REQUIREMENTS FOR ASSOCIATE IN ARTS (AA) AND ASSOCIATE IN SCIENCE (AS)

By completing an AA or AS degree prior to transfer, students will be considered to have attained junior standing and to have met all lower division general education requirements upon transfer to an Illinois public college or university.

Lake Land College is a participant in the Illinois Articulation Initiative (IAI), a statewide agreement that allows transfer of the Illinois General Education Core Curriculum (GECC) between participating institutions. Completion of the GECC at any participating college in Illinois assures transferring students that lower-division general education requirements for an associate or bachelor's degree have been satisfied. The IAI GECC course number for each Lake Land College course is included in ( ) in the course listings below. The AA degree includes the complete IAI GECC. Students who complete the AS degree may complete the additional 6 hours of IAI GECC (one course in Humanities and Fine Arts and one course in Social and Behavioral Sciences) as part of their Electives or following transfer to the four-year university.

Students may check the IAI website at transfer.org for updates to the approved course list.

CATEGORY	ASSOCIATE IN ARTS	ASSOCIATE IN SCIENCE
Total General Education Core Curriculum	37-38 semester hours as noted below	31-32 semester hours as noted below
Communications (IAI C)	3 courses (9 semester hours) including a two-course sequence in writing (6 semester hours) and one course in oral communication (3 semester hours)	3 courses (9 semester hours) including a two-course sequence in writing (6 semester hours) and one course in oral communication (3 semester hours)
Mathematics (IAI M)	1 course (3 semester hours)	1 course (3 semester hours)
Physical and Life Sciences (IAI P, IAI L)	2 courses (7 to 8 semester hours) with one course selected from the physical sciences (IAI P) and one course selected from the life sciences (IAI L) including at least one laboratory course (noted with an L at the end of the IAI number)	2 courses (7 to 8 semester hours) with one course selected from the physical sciences (IAI P) and one course selected from the life sciences (IAI L) including at least one laboratory course (noted with an L at the end of the IAI number)
Humanities and Fine Arts (IAI H, IAI F, IAI HF)	3 courses (9 semester hours) with at least one course selected from humanities (IAI H) and at least one course from fine arts (IAI F)	2 courses (6 semester hours) with one course selected from humanities (IAI H) and one course from fine arts (IAI F)
Social and Behavioral Sciences (IAI S)	3 courses (9 semester hours) with courses selected from at least two disciplines (ANT, ECO, GEO, HIS, POS, PSY, SOC)	2 courses (6 semester hours) with courses selected from two disciplines (ANT, ECO, GEO, HIS, POS, PSY, SOC)
Additional Math and Science Requirements	0 semester hours	2 courses (6 semester hours) One math course – MAT 100 or higher and One science course selected from BIO, CHM, ESC, PHY numbered 100 or higher
Recommended Major Courses/Electives	26-27 semester hours See sample majors on the following pages and consult with a counselor or your academic advisor. May include no more than 9 hours of courses numbered .040-.099	20-21 semester hours See sample majors on the following pages and consult with a counselor or your academic advisor. May include no more than 9 hours of courses numbered .040-.099
Total Minimum Hours Required for the Degree from Lake Land College	64 semester hours	64 semester hours

TRANSFER OF COMPLETED ASSOCIATE DEGREES

If a student completes an AA or an AS degree, he or she will be considered to have attained junior standing and to have met lower division general education requirements upon transfer to an Illinois public college or university. Visit itransfer.org for more information.

CAUTION: Requirements differ from one institution to another. The student should refer to the catalog of the four-year university to which he or she plans to transfer and consult with a member of the college counseling staff prior to registering for the courses he or she selects. Examples of outlines for each major are listed on the following pages.

Some College Transfer Majors are listed in this chapter with a sample model on the following pages. See your academic advisor or Counseling Services for those College Transfer Major models not listed.

ILLINOIS ARTICULATION INITIATIVE APPROVED COURSES

COMMUNICATIONS (IAI C)

ENG 120	Composition I	(C1 900)
ENG 121	Composition II	(C1 901R)
SPE 111	Introduction to Speech Communication	(C2 900)

A grade of "C" or better is required in Composition I and II (ENG 120, ENG 121) to graduate with an associate in arts, associate in science or associate in engineering science degree.

MATHEMATICS (IAI M)

MAT 116	General Education Math	(M1 904)
MAT 125	Statistics	(M1 902)
MAT 210	Finite Mathematics	(M1 906)
MAT 211	Mathematical Analysis	(M1 900)
MAT 218	Mathematics for Elementary Teachers II	(M1 903)
MAT 241	Analytic Geometry & Calculus I	(M1 900–1)
MAT 242	Analytic Geometry & Calculus II	(M1 900–2)
MAT 243	Analytic Geometry & Calculus III	(M1 900–3)

PHYSICAL AND LIFE SCIENCES (IAI P AND IAI L)

Physical Science (IAI P)

CHM 101	Physical Science/Chemistry	(P1 903L)
CHM 111	Concepts of Chemistry	(P1 903L)
CHM 120	General, Organic and Biochemistry I	(P1 902L)
CHM 150	General Chemistry I	(P1 902L)
ESC 100	Physical Geology	(P1 907L)
ESC 102	Weather and Climate	(P1 905L)
ESC 104	Physical Geography	(P1 909L)
PHY 110	Concepts of Physics	(P1 900L)
PHY 115	Astronomy	(P1 906)
PHY 130	College Physics I	(P1 900L)
PHY 140	University Physics I	(P2 900L)

Life Science (IAI L)

BIO 100	Biological Science I	(L1 900L)
BIO 130	Environmental Science	(L1 905L)
BIO 150	Biotechnology in Society	(L1 906)
BIO 160	Introduction to Genetics	(L1 906)

HUMANITIES AND FINE ARTS (IAI H, IAI F, IAI HF)

Humanities (IAI H)

HIS 153	History & Culture of the Third World	(H2 903N)
HIS 250	Western Civilization to 1660	(H2 901)
HIS 252	Western Civilization from 1660	(H2 902)
HUM 120	Myths & Legends	(H9 901)
HUM 150	Humanities through the Arts	(HF 900)
HUM 151	Nature in the Humanities	(H9 900)
LIT 130	Introduction to Literature	(H3 900)
LIT 147	Introduction to Fiction	(H3 901)
LIT 250	American Literature Survey I	(H3 914)
LIT 251	American Literature Survey II	(H3 915)
LIT 252	Multicultural American Literature	(H3 910D)
LIT 260	Survey of English Literature I	(H3 912)
LIT 261	Survey of English Literature II	(H3 913)
LIT 270	Literature of Women	(H3 911D)
LIT 274	Bible as Literature	(H5 901)
PHI 232	World Religions	(H4 905)
PHI 270	Introduction to Philosophy	(H4 900)
PHI 280	Ethics	(H4 904)
PHI 290	Introduction to Logic	(H4 906)

Fine Arts (IAI F)

ART 240	Art & Gender	(F2 907D)
ART 250	Understanding Art	(F2 900)
ART 260	Art History I	(F2 901)
ART 261	Art History II	(F2 902)
HUM 150	Humanities Through the Arts	(HF 900)
HUM 181	Introduction to Film Appreciation	(F2 908)
MUS 150	Music in American History & Culture	(F1 904)
MUS 229	Understanding Music	(F1 900)

SOCIAL AND BEHAVIORAL SCIENCES (IAI S)

ANT 200	General Anthropology	(S1 900N)
ECO 231	Principles of Economics I	(S3 901)
ECO 232	Principles of Economics II	(S3 902)
GEO 140	World Geography	(S4 900N)
HIS 155	History of United States I	(S2 900)
HIS 156	History of United States II	(S2 901)
POS 160	American National Government	(S5 900)
POS 162	State and Local Government	(S5 902)
POS 264	Introduction to International Relations	(S5 904)
PSY 271	Introduction to Psychology	(S6 900)
PSY 274	Child Development	(S6 903)
PSY 275	Psychology of Maturity & Old Age	(S6 905)
PSY 277	Social Psychology	(S8 900)
PSY 278	Family Relations	(S7 902)
PSY 279	Human Development/Life Span	(S6 902)
SOC 280	Introduction to Sociology	(S7 900)
SOC 282	Social Problems	(S7 901)
SOC 286	Racial and Ethnic Groups	(S7 903D)

ASSOCIATE IN ENGINEERING SCIENCE DEGREE (AES)

General Education requirements for an Associate in Engineering Science degree are described on the sample major page for Engineering.

All courses must be at the 100 course level or above.

DEGREE AUDIT

Degree-seeking students should run a degree-audit prior to registration each semester to determine how courses completed apply toward their intended degree and identify additional courses needed.

*** Please note prerequisites or course requisites listed in the Course Descriptions section of this catalog.**

AGRICULTURE

(AA.AGR) ASSOCIATE IN ARTS

The Agriculture transfer curriculum is designed for those students who are planning to transfer to a university and earn the bachelor of science degree in Agriculture. This is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR		
First Semester		**Hours**
ENG-120	Composition I *	3.0
BIO-100	Bio Science I	4.0
MAT-130	College Algebra *	3.0
AGR-206	Intro/Animal Science	4.0
PSY-271	Intr/Psychology or	
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
ENG-121	Composition II *	3.0
MAT-210	Finite Mathematics * or	
MAT-211	Math Analysis *	3.0
AGR-205	Intro/Soil Science	4.0
HIS-252	West Civil/1660-Present or	
--- ---	Humanities and Fine Arts (IAI H)	3.0
ECO-231	Principles of Econ I (Macro)	3.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR		
First Semester		**Hours**
CHM-120	Gen, Organic & Biochemistry I or	
CHM-150	General Chemistry I *	4.0
SPE-111	Intro to Speech Communication	3.0
HIS-153	History/Culture of Third World or	
--- ---	Humanities and Fine Arts (IAI H)	3.0
AGR-207	Intro/Ag Economics	4.0
AGR-208	Intro/Ag Mechanization + or	
HRT-201	Introduction to Horticulture +	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
CHM-121	Gen, Organic & Biochemistry II * ++ or	
CHM-151	General Chemistry II *	4.0
ART-250	Understanding Art or	
--- ---	Humanities and Fine Arts (IAI F)	3.0
POS-160	American National Government or	
--- ---	Social/Behavioral Science (IAI S)	3.0
AGR-204	Prin/Field Crop Science +++	4.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**64.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
++ Course only offered spring and summer semester
+++ Course only offered spring semester

ART

(AA.ART) ASSOCIATE IN ARTS

This is a sample list of major requirements. Upon successful completion of this course sequence, art majors will receive an associate in arts degree. University requirements vary by institution. Consult a counselor or academic advisor before registering.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ART-100	Drawing I +	3.0
ART-110	2-D Design	3.0
ART-260	Art History I +	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
MAT-125	Statistics * or	
MAT-116	General Education Math *	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
ART-200	Drawing II * +++	3.0
ART-225	Ceramics I +++	3.0
ENG-120	Composition I *	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
ART-261	Art History II +++	3.0
	SEMESTER TOTALS	**18.0**

SECOND YEAR

First Semester		Hours
ART-111	3-D Design +	3.0
ENG-121	Composition II *	3.0
ART-205	Painting * +	3.0
SPE-111	Intro to Speech Communication	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	4.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ART-161	Printmaking I +++	3.0
ART-206	Painting II * +++	3.0
--- ---	Social/Behavior Science (IAI S)	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Electives	3.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

ART-240	Art and Gender	3.0
ART-250	Understanding Art	3.0
HUM-150	Humanities Through the Arts	3.0
HIS-155	History of the U.S. I	3.0
HIS-156	History of the U.S. II	3.0
HIS-153	History/Culture of Third World	3.0
HUM-181	Intro to Film Appreciation	3.0

See the General Education section at the beginning of this chapter for general education requirements and course listings.

+ Course only offered fall semester
* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester

ASSOCIATE IN ENGINEERING SCIENCE

(AES.ENGR) ASSOCIATE IN ENGINEERING SCIENCE

This curriculum is designed for students wanting to pursue a bachelor's degree in Engineering at the Univeristy of Illinois Champaign/Urbana. The University of Illinois requires specific minimum GPAs for entry into the various majors of engineering. Consult a counselor or academic advisor before registering.

Upon completion of this course sequence, engineering science students will receive an associate in engineering science degree.

This is a sample list of requirements for this major. Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores. Only courses with a course number of 100 or higher meet graduation requirements for the AES degree.

FIRST YEAR		
First Semester		**Hours**
ENG-120	Composition I *	3.0
ECO-231	Principles of Econ I (Macro)	3.0
MAT-241	Analytical Geom-Calc I *	5.0
TEC-103	Engineering Graphics	3.0
CHM-150	General Chemistry I *	4.0
	SEMESTER TOTALS	**18.0**
Second Semester		
ENG-121	Composition II *	3.0
ECO-232	Prin Economics II (Micro) *	3.0
MAT-242	Analytical Geom-Calc II *	4.0
PHY-140	University Physics I * +++	4.0
CHM-151	General Chemistry II *	4.0
	SEMESTER TOTALS	**18.0**

SECOND YEAR		
First Semester		**Hours**
PHY-141	University Physics II * +	4.0
PHY-239	Mechanics I * +	3.0
MAT-151	C Program W/Engineering Appl * +	3.0
MAT-250	Matrix Algebra * + or	
MAT-255	Linear Algebra * +	2.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
PHY-142	University Physics III * +++	4.0
MAT-243	Analytical Geom-Calc III * +++	4.0
MAT-245	Differential Equations * +++	3.0
PHY-240	Mechanics II * +++	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**68.0**

SUGGESTED ELECTIVES		
HIS-153	History/Culture of Third World	3.0
HIS-250	Western Civil to 1660	3.0
HIS-252	West Civil/1660-Present	3.0

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
+ Course only offered fall semester

BIOSCIENCE NON-TEACHING

(AS.BIOL) ASSOCIATE IN SCIENCE

This is a sample list of major requirements. Upon completion of this course sequence, bioscience non-teaching students will receive an associate in science degree.

The associate in science degree requires the completion of 64 credit hours. The sample course sequence below includes the required 64 credit hours plus additional courses recommended for this major.

Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
SPE-111	Intro to Speech Communication	3.0
BIO-100	Bio Science I	4.0
CHM-150	General Chemistry I *	4.0
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
ENG-121	Composition II *	3.0
BIO-116	General Zoology *	4.0
CHM-151	General Chemistry II *	4.0
MAT-140	Algebra With Trigonometry *	5.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
	SEMESTER TOTALS	**19.0**

SECOND YEAR

First Semester		Hours
BIO-111	General Botany *	4.0
CHM-243	Organic Chemistry I * +	4.0
CHM-253	Organic Chemistry Lab I * +	1.0
ESC-106	Intro Geographic Info Systems	4.0
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
MAT-241	Analytical Geom-Calc I *	5.0
BIO-212	Vertebrate Zoology * +++	3.0
BIO-130	Environmental Science	4.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**67.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester

BUSINESS ADMINISTRATION

(AA.BA) ASSOCIATE IN ARTS

This degree is also available online. This curriculum is for students interested in business administration (accounting, finance, management, marketing, computer information systems) planning to transfer to a university. Course requirements are modified to meet demands of individual universities. Upon completion of this program, students may transfer as juniors to universities. This is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
MAT-130	College Algebra *	3.0
--- ---	Physical and Life Sciences (IAI L or IAI P)	3.0
PHI-290	Intro to Logic	3.0
BUS-142	Introduction to Business	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
ENG-121	Composition II *	3.0
CIS-160	Practical Software Application *	3.0
MAT-210	Finite Mathematics *	3.0
--- ---	Physical and Life Sciences (IAI L or IAI P)	4.0
SPE-111	Intro to Speech Communication	3.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
BUS-151	Financial Accounting *	3.0
BUS-200	Legal Environ/Business	3.0
--- ---	Elective	3.0
ECO-231	Principles of Econ I (Macro)	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
BUS-120	Business Career Development	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
BUS-152	Managerial Accounting *	3.0
BUS-281	Business Statistics *	3.0
ECO-232	Prin Economics II (Micro) *	3.0
--- ----	Humanities and Fine Arts (IAI H or IAI F)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**64.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

BUSINESS EDUCATION

(AA.BE) ASSOCIATE IN ARTS

This curriculum is for students interested in business education who plan to transfer to a university. Course requirements are modified to meet demands of individual universities. Upon completion of this program, students may transfer as juniors to universities. This is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
BUS-142	Introduction to Business	3.0
--- ---	Physical and Life Sciences (IAI L)	4.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-121	Composition II *	3.0
CIS-160	Practical Software Application *	3.0
--- ---	Physical and Life Sciences (IAI P)	3.0
SPE-111	Intro to Speech Communication	3.0
EDU-210	Diversity/Schools & Societies	3.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
BUS-151	Financial Accounting *	3.0
BUS-200	Legal Environ/Business	3.0
ECO-231	Principles of Econ I (Macro)	3.0
HIS-153	History/Culture of Third World	3.0
BUS-120	Business Career Development	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
BUS-152	Managerial Accounting *	3.0
ECO-232	Prin Economics II (Micro) *	3.0
POS-160	American National Government	3.0
MAT-125	Statistics *	3.0
EDU-100	Introduction to Education	3.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

BUS-141	Business Communications *	3.0
PSY-271	Intr/Psychology	3.0
BUS-247	Principles of Marketing	3.0
BUS-251	Principles of Management	3.0
BUS-285	Labor Relations *	3.0
BUS-287	Intro International Business *	3.0
BUS-290	Human Resource Management *	3.0
CIS-101	Internet Systems/Applications	2.0

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

CHEMISTRY

(AS.CHEM) ASSOCIATE IN SCIENCE

This is a sample of major requirements. Upon completion of this course sequence, chemistry students will receive an associate in science degree.

The associate in science degree requires the completion of 64 credit hours. The sample course sequence below includes the required 64 credit hours plus additional courses recommended for this major.

Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR		
First Semester		**Hours**
CHM-150	General Chemistry I *	4.0
MAT-241	Analytical Geom-Calc I *	5.0
ENG-120	Composition I *	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
-- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
CHM-151	General Chemistry II *	4.0
MAT-242	Analytical Geom-Calc II *	4.0
ENG-121	Composition II *	3.0
PHY-140	University Physics I * +++	4.0
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**18.0**

SECOND YEAR		
First Semester		**Hours**
CHM-243	Organic Chemistry I * +	4.0
CHM-253	Organic Chemistry Lab I * +	1.0
PHY-141	University Physics II * +	4.0
SPE-111	Intro to Speech Communication	3.0
BIO-100	Bio Science I	4.0
	SEMESTER TOTALS	**16.0**
Second Semester		
CHM-244	Organic Chemistry II * +++	4.0
CHM-254	Organic Chemistry Lab II * +++	1.0
MAT-243	Analytical Geom-Calc III * +++	4.0
PHY-142	University Physics III * +++	4.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**68.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
+ Course only offered fall semester

CLINICAL LABORATORY SCIENCE

(AS.CLSC) ASSOCIATE IN SCIENCE

The following courses are recommended for Clinical Laboratory Science students. These courses meet the Clinical Laboratory Science transfer requirements of the Illinois Articulation Initiative. Upon completion of this course sequence, Clinical Laboratory Science students will receive an associate in science degree. This is a sample list of major requirements.

The associate in science degree requires the completion of 64 credit hours. The sample course sequence below includes the required 64 credit hours plus additional courses recommended for this major.

Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR		
First Semester		**Hours**
ENG-120	Composition I *	3.0
BIO-100	Bio Science I	4.0
CHM-150	General Chemistry I *	4.0
MAT-125	Statistics *	3.0
PSY-271	Intr/Psychology	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
ENG-121	Composition II *	3.0
BIO-116	General Zoology *	4.0
CHM-151	General Chemistry II *	4.0
SPE-111	Intro to Speech Communication	3.0
ANT-200	General Anthropology	3.0
	SEMESTER TOTALS	**17.0**

SECOND YEAR		
First Semester		**Hours**
BIO-225	Human Ana/Phys I *	4.0
CHM-243	Organic Chemistry I *	4.0
CHM-253	Organic Chemistry Lab I *	1.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
MAT-130	College Algebra *	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
BIO-226	Human Ana/Phys II *	4.0
CHM-244	Organic Chemistry II *	4.0
CHM-254	Organic Chemistry Lab II *	1.0
BIO-235	Microbiology *	4.0
PHI-280	Ethics	3.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**65.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

CONSERVATION/PRE-FORESTRY

(AS.CONSF) ASSOCIATE IN SCIENCE

This is a sample list of major requirements. Upon completion of this course sequence, conservation/pre-foresty students will receive an associate in science degree. Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
MAT-130	College Algebra * ^^	3.0
BIO-100	Bio Science I	4.0
CHM-120	Gen, Organic & Biochemistry I +	4.0
ECO-231	Principles of Econ I (Macro)	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
ENG-121	Composition II *	3.0
BIO-116	General Zoology *	4.0
ECO-232	Prin Economics II (Micro)	3.0
MUS-150	Music in Amer History/Culture	3.0
SPE-111	Intro to Speech Communication	3.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
BIO-111	General Botany *	4.0
BIO-160	Introduction to Genetics	3.0
AGR-205	Intro/Soil Science	4.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
	SEMESTER TOTALS	**14.0**
Second Semester		
MAT-125	Statistics *	3.0
BIO-212	Vertebrate Zoology * +++	3.0
BIO-130	Environmental Science	4.0
ESC-106	Intro Geographic Info Systems	4.0
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**64.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
^^ Consult Academic Advisor for appropriate course
+ Course only offered fall semester
+++ Course only offered spring semester

CONSERVATION/PRE-WILDLIFE

(AS.CONSW) ASSOCIATE IN SCIENCE

This is a sample list of major requirements. Upon completion of this course sequence, conservation/pre-wildlife students will receive an associate in science degree. Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
MAT-125	Statistics *	3.0
BIO-100	Bio Science I	4.0
CHM-150	General Chemistry I *	4.0
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
ENG-121	Composition II *	3.0
BIO-116	General Zoology *	4.0
CHM-151	General Chemistry II *	4.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
	SEMESTER TOTALS	**17.0**

SECOND YEAR

First Semester		Hours
BIO-111	General Botany *	4.0
BIO-130	Environmental Science	4.0
ESC-106	Intro Geographic Info Systems	4.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
MAT-241	Analytical Geom-Calc I *	5.0
SPE-111	Intro to Speech Communication	3.0
BIO-212	Vertebrate Zoology * +++	3.0
--- ---	Electives ^^	4.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**64.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
^^ Consult Academic Advisor for appropriate course

CRIMINAL JUSTICE

(AA.CJS) ASSOCIATE IN ARTS

This program is designed for students desiring to enter a criminal justice field (law enforcement, corrections, probation, etc.) directly upon graduation or for students desiring to transfer to a university. This is a sample list of major requirements. University requirements vary by institution. Students should consult a counselor or his or her academic advisor prior to registering.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
CJS-150	Intro/Criminal Just	3.0
BIO-130	Environmental Science or	
BIO-100	Bio Science I	4.0
CIS-160	Practical Software Application *	3.0
SOC-282	Social Problems or	
SOC-280	Introduction to Sociology	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-121	Composition II *	3.0
CJS-152	Criminal Investigation I	3.0
--- ---	Physical and Life Sciences (IAI P)	3.0
CJS-156	Criminal Law	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
SPE-111	Intro to Speech Communication	3.0
CJS-166	Corrections	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
--- ---	Social/Behavioral Science (IAI S	3.0
CJS-160	Criminal Evidence & Procedure *	3.0
--- ---	Mathematics (IAI M) *	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
CJS-158	Juvenile Justice	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Humanities and Fine Arts (IAI H or IAI F)	3.0
HED-178	Responding to Emergencies	2.0
PSY-271	Intr/Psychology	3.0
--- ---	Elective ^^	1.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**64.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
^^ Consult Academic Advisor for appropriate course

EARLY CHILDHOOD EDUCATION

(AA.ECHED) ASSOCIATE IN ARTS

This program is designed for students desiring to transfer to a university and obtain a Type 04 Illinois Teaching Certificate, Birth - Grade 3. This is a sample list of major requirements. University requirements vary by institution. Consult the catalog from the intended transfer university and a counselor or academic advisor before registering.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
HIS-155	History of the U.S. I or	
HIS-156	History of the U.S. II	3.0
BIO-100	Bio Science I	4.0
MAT-118	Math for Elem Teachers I *	3.0
EDU-100	Introduction to Education	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-121	Composition II *	3.0
EDU-210	Diversity/Schools & Societies	3.0
PHY-110	Concepts of Physics or	
CHM-111	Concepts of Chemistry	4.0
MAT-218	Math for Elem Teachers II *	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
PSY-274	Child Development	3.0
POS-160	American National Government	3.0
SPE-111	Intro to Speech Communication	3.0
--- ---	Humanities and Fine Arts (IAI H) *	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
EDU-190	Introduction/Special Education	3.0
PED-172	Bsc Act Elem/Sec Child	2.0
EDU-103	Teaching/Learning W/Technology	3.0
HIS-153	History/Culture of Third World	3.0
MUS-229	Understanding Music or	
ART-250	Understanding Art	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**64.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

EARTH SCIENCE

(AS.EASC) ASSOCIATE IN SCIENCE

This is a sample list of major requirements. Upon completion of this course sequence, earth science students will receive an associate in science degree. Consult a counselor or academic advisor for differences between geology and geography requirements before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

See Advisor for GIS certificate.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
ESC-102	Weather and Climate	4.0
MAT-125	Statistics *	3.0
BIO-130	Environmental Science	4.0
--- ---	Elective ^^	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
ENG-121	Composition II *	3.0
ESC-100	Physical Geology	4.0
--- ---	Electives	4.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Math Elective ^^	3.0
	SEMESTER TOTALS	**17.0**

SECOND YEAR

First Semester		Hours
ESC-106	Intro Geographic Info Systems	4.0
GEO-140	World Geography	3.0
ESC-104	Physical Geography	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
--- ---	Elective ^^	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
SPE-111	Intro to Speech Communication	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Electives ^^	4.0
--- ---	Science Elective ^^	4.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

PHY-110	Concepts of Physics	4.0
CHM-111	Concepts of Chemistry	4.0
CIS-101	Internet Systems/Applications	2.0
CIS-160	Practical Software Application *	3.0
MAT-130	College Algebra *	3.0
MAT-132	Trigonometry *	3.0
MAT-241	Analytical Geom-Calc I *	5.0

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
^^ Consult Academic Advisor for appropriate course

ECONOMICS

(AA.ECO) ASSOCIATE IN ARTS

This is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
ECO-231	Principles of Econ I (Macro)	3.0
MAT-130	College Algebra *	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	4.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-121	Composition II *	3.0
MAT-210	Finite Mathematics *	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
ECO-232	Prin Economics II (Micro) *	3.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
SPE-111	Intro to Speech Communication	3.0
--- ---	Social/Behavioral Science (IAI S) *	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
PSY-271	Intr/Psychology	3.0
MAT-211	Math Analysis *	4.0
	SEMESTER TOTALS	**16.0**
Second Semester		
--- ---	Social/Behavioral Science (IAI S)	3.0
BUS-281	Business Statistics *	3.0
--- ---	Electives	11.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

MAT-241	Analytical Geom-Calc I	5.0

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

ELEMENTARY EDUCATION

(AA.ELED) ASSOCIATE IN ARTS

This is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
HIS-155	History of the U.S. I or	
HIS-156	History of the U.S. II	3.0
PHY-110	Concepts of Physics or	
CHM-111	Concepts of Chemistry	4.0
MAT-118	Math for Elem Teachers I *	3.0
EDU-100	Introduction to Education	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-121	Composition II *	3.0
PSY-271	Intr/Psychology	3.0
BIO-100	Bio Science I	4.0
MAT-218	Math for Elem Teachers II *	3.0
EDU-103	Teaching/Learning W/Technology	3.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
SPE-111	Intro to Speech Communication	3.0
--- ---	Area of Concentration	2.0
POS-160	American National Government	3.0
PSY-274	Child Development	3.0
--- ---	Social/Behavioral Science (IAI S) or	
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
	SEMESTER TOTALS	**14.0**
Second Semester		
HIS-153	History/Culture of Third World	3.0
EDU-210	Diversity/Schools & Societies	3.0
--- ---	Area of Concentration	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
--- ---	Humanities and Fine Arts (IAI H) *	3.0
ART-250	Understanding Art or	
MUS-229	Understanding Music	3.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**64.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

ENGLISH

(AA.ENG) ASSOCIATE IN ARTS

The English transfer program emphasizes literature, writing, and related areas and is designed to provide a solid background for work at the junior and senior levels in English.

Consult both the following list of major requirements and an academic advisor before registering, as expectations of English departments at universities vary.

This is a sample list of requirements for this major. Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
HIS-155	History of the U.S. I or	
HIS-156	History of the U.S. II	3.0
MAT-116	General Education Math * or	
MAT-125	Statistics	3.0
HUM-150	Humanities Through the Arts	3.0
SPE-111	Intro to Speech Communication	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
ENG-121	Composition II *	3.0
LIT-130	Intro to Literature	3.0
HIS-250	Western Civil to 1660 or	
HIS-252	West Civil/1660-Present	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	4.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
PHI-290	Intro to Logic	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Elective	3.0
--- ---	Two Literature Electives *	6.0
	SEMESTER TOTALS	**15.0**
Second Semester		
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
--- ---	Literature Elective *	3.0
--- ---	Electives	12.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**64.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

ENVIRONMENTAL SCIENCE

(AS.ENSC) ASSOCIATE IN SCIENCE

This is a sample list of major requirements. Upon completion of this course sequence, environmental science students will receive an associate in science degree.

The associate in science degree requires the completion of 64 credit hours. The sample course sequence below includes the required 64 credit hours plus additional courses recommended for this major.

Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
BIO-100	Bio Science I	4.0
CHM-150	General Chemistry I *	4.0
MAT-125	Statistics *	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
ENG-121	Composition II *	3.0
BIO-111	General Botany *	4.0
CHM-151	General Chemistry II *	4.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**17.0**

SECOND YEAR

First Semester		Hours
BIO-116	General Zoology *	4.0
BIO-130	Environmental Science	4.0
ESC-106	Intro Geographic Info Systems	4.0
MAT-140	Algebra With Trigonometry *	5.0
	SEMESTER TOTALS	**17.0**
Second Semester		
MAT-241	Analytical Geom-Calc I *	5.0
SPE-111	Intro to Speech Communication	3.0
BIO-212	Vertebrate Zoology * +++	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**65.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester

HEALTH EDUCATION

(AA.HEAED) ASSOCIATE IN ARTS

This is a sample list of major requirements. Consult an academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
HED-200	Principles of Health	3.0
MAT-125	Statistics *	3.0
BIO-100	Bio Science I	4.0
HUM-150	Humanities Through the Arts	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-121	Composition II *	3.0
HED-102	Nutrition	3.0
CHM-101	Physical Science II	3.0
MUS-229	Understanding Music	3.0
--- ---	Mathematics (IAI M)	3.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
SPE-111	Intro to Speech Communication	3.0
HED-290	Disease Processes *	2.0
ART-250	Understanding Art	3.0
POS-160	American National Government	3.0
BIO-225	Human Ana/Phys I *	4.0
HED-270	Community Health	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
--- ---	Social/Behavioral Science (IAI S)	3.0
PSY-271	Intr/Psychology	3.0
PED-285	Fitness for Life	3.0
--- ---	Electives	6.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

BIO-130	Environmental Science	4.0
HED-178	Responding to Emergencies	2.0

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

HISTORY

(AA.HIS) ASSOCIATE IN ARTS

This is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
HIS-155	History of the U.S. I	3.0
-- ---	Mathematics (IAI M) *	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	4.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-121	Composition II *	3.0
HIS-156	History of the U.S. II	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
--- ---	Electives	4.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
SPE-111	Intro to Speech Communication	3.0
HIS-250	Western Civil to 1660	3.0
--- ---	Electives	6.0
HIS-153	History/Culture of Third World	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
HIS-252	West Civil/1660-Present	3.0
POS-160	American National Government	3.0
--- ---	Electives	11.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

EDU-100	Introduction to Education ^^^	3.0
HED-200	Principles of Health	3.0
PED-285	Fitness for Life	3.0

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
^^^ Course requires a 30-hour practicum experience in addition to classroom lecture hours

LIBERAL ARTS

(AA.LAS) ASSOCIATE IN ARTS

The sequence below works for students seeking an associate degree to prepare for transfer to a university who wish to cover a broad selection of courses centered on the liberal arts.

This is a sample list of major requirements. Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR		
First Semester		**Hours**
ENG-120	Composition I *	3.0
--- ---	Mathematics (IAI M) *	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
ENG-121	Composition II *	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	4.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
--- ---	Electives	6.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR		
First Semester		**Hours**
SPE-111	Intro to Speech Communication	3.0
--- ---	Physical and LIfe Sciences (IAI P or IAI L)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Electives	6.0
	SEMESTER TOTALS	**15.0**
Second Semester		
--- ---	Humanities and Fine Arts (IAI H or IAI F)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Electives	12.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**64.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

MATHEMATICS

(AA.MATH) ASSOCIATE IN ARTS

Mathematics prepares the student to transfer to a senior institution with a major in mathematics. This is a sample list of major requirements. Requirements vary from university to university. Consult the catalog of the intended transfer university and a counselor or academic advisor before registering.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
MAT-241	Analytical Geom-Calc I *	5.0
SPE-111	Intro to Speech Communication	3.0
BIO-100	Bio Science I	4.0
PHI-290	Intro to Logic	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
ENG-121	Composition II *	3.0
MAT-242	Analytical Geom-Calc II *	4.0
PHY-140	University Physics I * +++ or	
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
MAT-151	C Program W/Engineering Appl * +	3.0
MAT-255	Linear Algebra * +	3.0
--- ---	Humanities and Fine Arts (IAI H, IAI F, or IAI HF)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
MAT-243	Analytical Geom-Calc III * +++	4.0
MAT-245	Differential Equations * +++	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Electives	5.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

PHY-141	University Physics II * +	4.0
CIS-156	Computer Logic * +++	3.0
CIS-162	Object-Oriented Programming I * +++	3.0
EDU-100	Introduction to Education	3.0

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
+ Course only offered fall semester

MATHEMATICS EDUCATION

(AA.MAED) ASSOCIATE IN ARTS

Mathematics Education prepares the student to transfer to a senior institution with a major in mathematics education. This is a sample list of major requirements. Requirements vary from university to university. Consult the catalog from the intended transfer university and a counselor or academic advisor before registering.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
MAT-241	Analytical Geom-Calc I *	5.0
SPE-111	Intro to Speech Communication	3.0
--- ---	Physical and Life Science (IAI P or IAI L)	4.0
EDU-100	Introduction to Education ^^^	3.0
	SEMESTER TOTALS	**18.0**

Second Semester		
ENG-121	Composition II *	3.0
MAT-242	Analytical Geom-Calc II *	4.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
PSY-271	Intr/Psychology	3.0
EDU-210	Diversity/Schools & Societies	3.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
EDU-200	Educational Psychology	3.0
MAT-255	Linear Algebra * +	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
HIS-153	History/Culture of Third World	3.0
	SEMESTER TOTALS	**15.0**

Second Semester		
MAT-243	Analytical Geom-Calc III * +++	4.0
MAT-245	Differential Equations * +++	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Humanities and Fine Arts (IAI H or IAI F)	3.0
--- ---	Elective ^^	2.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**64.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
^^^ Course requires a 30-hour practicum experience in addition to classroom lecture hours
+ Course only offered fall semester
+++ Course only offered spring semester
^^ Consult Academic Advisor for appropriate course

OTHER MAJOR

(AA.OTH) ASSOCIATE IN ARTS

The sequence below is for students seeking an associate degree to prepare for transfer to a university, but are pursuing a career path or major not offered at Lake Land College. The intent of this sample curriculum is to allow students to select appropriate coursework based on the major of interest and the school to which they wish to transfer. Coordination between the student and Academic Advisors at Lake Land College and the transfer school will guide the selected coursework.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
--- ---	Mathematics (IAI M) *	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
ENG-121	Composition II *	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	4.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
--- ---	Electives	6.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
SPE-111	Intro to Speech Communication	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Electives	6.0
	SEMESTER TOTALS	**15.0**
Second Semester		
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
--- ---	Electives	12.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**64.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

PHYSICAL EDUCATION

(AA.PHYED) ASSOCIATE IN ARTS

This is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution. Students should enroll in a physical education activity and physical education technique class every semester.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
PED-183	Intro to Physical Education	3.0
MAT-125	Statistics * or	
--- ---	Mathematics (IAI M)	3.0
BIO-100	Bio Science I	4.0
HUM-150	Humanities Through the Arts	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-121	Composition II *	3.0
PED-185	B-Ball/V-Ball Sports Officiate	3.0
CHM-101	Physical Science II	3.0
BIO-225	Human Ana/Phys I *	4.0
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
SPE-111	Intro to Speech Communication	3.0
PED-172	Bsc Act Elem/Sec Child	2.0
ART-250	Understanding Art	3.0
POS-160	American National Government	3.0
--- ---	Elective	2.0
PED-244	Kinesiology	4.0
	SEMESTER TOTALS	**17.0**
Second Semester		
PSY-271	Intr/Psychology	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
PED-285	Fitness for Life	3.0
HED-200	Principles of Health	3.0
PED-152	Theory of Motor Learning	3.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

EDU-100	Introduction to Education	3.0
PED ---	Skill Classes	4.0
PED ---	Technique of Classes	4.0

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

PHYSICS

(AS.PHYS) ASSOCIATE IN SCIENCE

This is a sample of major requirements.Upon completion of this course sequence, physics students will receive an associate in science degree. Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
CHM-150	General Chemistry I *	4.0
MAT-241	Analytical Geom-Calc I *	5.0
ENG-120	Composition I *	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
CHM-151	General Chemistry II *	4.0
MAT-242	Analytical Geom-Calc II *	4.0
ENG-121	Composition II *	3.0
PHY-140	University Physics I * +++	4.0
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**18.0**

SECOND YEAR

First Semester		Hours
PHY-141	University Physics II * +	4.0
SPE-111	Intro to Speech Communication	3.0
BIO-100	Bio Science I	4.0
--- ---	Physics/Math Elective	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
PHY-142	University Physics III * +++	4.0
MAT-243	Analytical Geom-Calc III * +++	4.0
--- ---	Physics/Math Elective	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

MAT-245	Differential Equations * +++	3.0
MAT-255	Linear Algebra * +	3.0
PHY-239	Mechanics I * +	3.0
PHY-240	Mechanics II * +++	3.0

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
+ Course only offered fall semester

POLITICAL SCIENCE

(AA.PS) ASSOCIATE IN ARTS

This is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
POS-160	American National Government	3.0
--- ---	Mathematics (IAI M) *	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	4.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-121	Composition II *	3.0
POS-162	State/Local Govern	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
PSY-271	Intr/Psychology	3.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
SPE-111	Intro to Speech Communication	3.0
POS-264	Intro/Interntnl Rel	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Recommended or Open Electives	4.0
	SEMESTER TOTALS	**16.0**
Second Semester		
--- ---	Social/Behavioral Science (IAI S)	3.0
HIS-250	Western Civil to 1660	3.0
--- ---	Electives	11.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

MAT-125	Statistics *	3.0
HIS-252	West Civil/1660-Present	3.0
HIS-153	History/Culture of Third World	3.0

See the General Education section at the beginning of this chapter for general education requirements and course listings. If transferring to the University of Illinois, do not take MAT 125; course should be based on math background and placement scores.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

PRE-CHIROPRACTIC

(AS.PCHI) ASSOCIATE IN SCIENCE

The following courses are recommended for Pre-Chiropractic students. Upon completion of this course sequence, pre-chiropractic students will receive an associate in science degree.

This course sequence is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution.

The associate in science degree requires the completion of 64 credit hours. The sample course sequence below includes the required 64 credit hours plus additional courses recommended for this major.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR		
First Semester		**Hours**
ENG-120	Composition I *	3.0
CHM-150	General Chemistry I *	4.0
BIO-100	Bio Science I	4.0
MAT-125	Statistics *	3.0
SPE-111	Intro to Speech Communication	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
ENG-121	Composition II *	3.0
CHM-151	General Chemistry II *	4.0
BIO-116	General Zoology *	4.0
BIO-225	Human Ana/Phys I *	4.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
	SEMESTER TOTALS	**18.0**

SECOND YEAR		
First Semester		**Hours**
CHM-243	Organic Chemistry I * +	4.0
CHM-253	Organic Chemistry Lab I * +	1.0
PHY-130	College Physics I * +	4.0
--- ---	Social/Behavioral Science (IAI S)	3.0
MAT-241	Analytical Geom-Calc I *	5.0
	SEMESTER TOTALS	**17.0**
Second Semester		
CHM-244	Organic Chemistry II * +++	4.0
CHM-254	Organic Chemistry Lab II * +++	1.0
PHY-131	College Physics II * +++	4.0
PSY-271	Intr/Psychology	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**67.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester

PRE-DENTAL

(AS.PDEN) ASSOCIATE IN SCIENCE

The following courses are recommended for Pre-Dentistry students. Upon completion of this course sequence, pre-dental students will receive an associate in science degree.

This course sequence is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution. For further information, contact a pre-dentistry advisor.

The associate in science degree requires the completion of 64 credit hours. The sample course sequence below includes the required 64 credit hours plus additional courses recommended for this major.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR		
First Semester		**Hours**
ENG-120	Composition I *	3.0
BIO-100	Bio Science I	4.0
PSY-271	Intr/Psychology	3.0
MAT-140	Algebra With Trigonometry *	5.0
CHM-150	General Chemistry I *	4.0
	SEMESTER TOTALS	**19.0**
Second Semester		
ENG-121	Composition II *	3.0
BIO-225	Human Ana/Phys I *	4.0
MAT-241	Analytical Geom-Calc I *	5.0
CHM-151	General Chemistry II *	4.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR		
First Semester		**Hours**
HIS-155	History of the U.S. I	3.0
CHM-243	Organic Chemistry I * +	4.0
CHM-253	Organic Chemistry Lab I * +	1.0
BIO-226	Human Ana/Phys II	4.0
SPE-111	Intro to Speech Communication	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
BIO-235	Microbiology *	4.0
CHM-244	Organic Chemistry II * +++	4.0
CHM-254	Organic Chemistry Lab II * +++	1.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
	SEMESTER TOTALS	**12.0**
	TOTAL PROGRAM HOURS	**65.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester

PRE-ENGINEERING

(AS.PENG) ASSOCIATE IN SCIENCE

This degree is designed for students who do not plan to transfer to the University of Illinois. Students who are planning to transfer to the U of I should see the Engineering (AES.ENGR) degree program.

This course sequence is a sample of major requirements. Upon completion of this course sequence, pre-engineering students will receive an associate in science degree. Consult a counselor or academic advisor before registering. University requirements vary by institution.

The associaiton in science degree requires the completion of 64 credit hours. The sample course sequence below includes the required 64 credit hours plus additional courses recommended for this major.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR		
First Semester		**Hours**
CHM-150	General Chemistry I *	4.0
MAT-241	Analytical Geom-Calc I *	5.0
ENG-120	Composition I *	3.0
ECO-231	Principles of Econ I (Macro)	3.0
TEC-103	Engineering Graphics	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
CHM-151	General Chemistry II *	4.0
MAT-242	Analytical Geom-Calc II *	4.0
ENG-121	Composition II *	3.0
PHY-140	University Physics I * +++	4.0
--- ---	Social/Behavioral Science (IAI S) *	3.0
	SEMESTER TOTALS	**18.0**

SECOND YEAR		
First Semester		**Hours**
PHY-141	University Physics II * +	4.0
SPE-111	Intro to Speech Communication	3.0
BIO-100	Bio Science I	4.0
MAT-151	C Program W/Engineering Appl * +	3.0
PHY-239	Mechanics I * +	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
MAT-245	Differential Equations * +++	3.0
PHY-240	Mechanics II * +++	3.0
MAT-243	Analytical Geom-Calc III * +++	4.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**69.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
+ Course only offered fall semester

PRE-MEDICINE

(AS.PMED) ASSOCIATE IN SCIENCE

The following courses are recommended for Pre-Medicine students. Upon completion of this course sequence, pre-medicine students will receive an associate in science degree.

This course sequence is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution.

The associate in science degree requires the completion of 64 credit hours. The sample course sequence below includes the required 64 credit hours plus additional courses recommended for this major.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
BIO-100	Bio Science I	4.0
CHM-150	General Chemistry I *	4.0
MAT-140	Algebra With Trigonometry *	5.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-121	Composition II *	3.0
BIO-116	General Zoology *	4.0
MAT-241	Analytical Geom-Calc I *	5.0
CHM-151	General Chemistry II *	4.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
PHY-130	College Physics I * +	4.0
CHM-243	Organic Chemistry I * +	4.0
CHM-253	Organic Chemistry Lab I * +	1.0
SPE-111	Intro to Speech Communication	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
CHM-244	Organic Chemistry II * +++	4.0
CHM-254	Organic Chemistry Lab II * +++	1.0
BIO-214	Comp Anatomy of Vertebrates * or	
BIO-111	General Botany *	4.0
PHY-131	College Physics II *	4.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**19.0**
	TOTAL PROGRAM HOURS	**69.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester

PRE-NURSING

(AA.PNUR) ASSOCIATE IN ARTS

The following courses are recommended for Pre-Nursing students who have not already completed an ADN (RN) program. Consult a counselor or academic advisor before registering. University requirements vary by institution. Students who are seeking admission to the Lake Land College Associate Degree in Nursing (RN) or Certificate in Practical Nursing (PN) should refer to the AAS.ADN or CRT.PN sections of the catalog.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
BIO-100	Bio Science I	4.0
PSY-271	Intr/Psychology	3.0
CHM-120	Gen, Organic & Biochemistry I +	4.0
SPE-111	Intro to Speech Communication	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
ENG-121	Composition II *	3.0
BIO-225	Human Ana/Phys I *	4.0
CHM-121	Gen, Organic & Biochemistry II * +++	5.0
PHI-280	Ethics	3.0
SOC-280	Introduction to Sociology	3.0
	SEMESTER TOTALS	**18.0**

SECOND YEAR

First Semester		Hours
BIO-226	Human Ana/Phys II *	4.0
MAT-125	Statistics *	3.0
PHI-290	Intro to Logic	3.0
PSY-279	Human Dev/Life Span	3.0
--- ---	Elective ^^	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
BIO-235	Microbiology *	4.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
HED-102	Nutrition	3.0
--- ---	Elective ^^	3.0
	SEMESTER TOTALS	**13.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

ANT-200	General Anthropology	3.0
CIS-160	Practical Software Application *	3.0
POS-160	American National Government	3.0
SPE-200	Interpersonal Communication	3.0

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester
^^ Consult Academic Advisor for appropriate course

PRE-PHARMACY

(AS.PPHM) ASSOCIATE IN SCIENCE

The following courses are recommended for Pre-Pharmacy students. Upon completion of this course sequence, pre-pharmacy students will receive an associate in science degree.

Consult a counselor or academic advisor before registering. University requirements vary by institution.

The associate in science degree requires the completion of 64 credit hours. The sample course sequence below includes the required 64 credit hours plus additional courses recommended for this major.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR		
First Semester		**Hours**
ENG-120	Composition I *	3.0
BIO-100	Bio Science I	4.0
CHM-150	General Chemistry I *	4.0
--- ---	Humanities and Fine Arts (IAI F) ^^	3.0
--- ---	Humanities and Fine Arts (IAI H) ^^	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
ENG-121	Composition II *	3.0
BIO-116	General Zoology *	4.0
CHM-151	General Chemistry II *	4.0
BIO-111	General Botany *	4.0
MAT-125	Statistics *	3.0
	SEMESTER TOTALS	**18.0**

SECOND YEAR		
First Semester		**Hours**
BIO-225	Human Ana/Phys I *	4.0
CHM-243	Organic Chemistry I * +	4.0
CHM-253	Organic Chemistry Lab I * +	1.0
SPE-111	Intro to Speech Communication	3.0
PHY-130	College Physics I * +	4.0
	SEMESTER TOTALS	**16.0**
Second Semester		
BIO-226	Human Ana/Phys II *	4.0
CHM-244	Organic Chemistry II * +++	4.0
CHM-254	Organic Chemistry Lab II * +++	1.0
PSY-271	Intr/Psychology	3.0
MAT-241	Analytical Geom-Calc I *	5.0
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**20.0**
	TOTAL PROGRAM HOURS	**71.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings. Upon completion of this course sequence, pre-pharmacy students will receive an associate in science degree.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
^^ Consult Academic Advisor for appropriate course
+ Course only offered fall semester
+++ Course only offered spring semester

PRE-PHYSICAL THERAPY

(AS.PPTH) ASSOCIATE IN SCIENCE

The following courses are recommended for Pre-Physical Therapy students. Upon completion of this course sequence, pre-physical therapy students will receive an associate in science degree.

This is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
BIO-100	Bio Science I	4.0
CHM-150	General Chemistry I *	4.0
MAT-125	Statistics *	3.0
	SEMESTER TOTALS	**14.0**
Second Semester		
ENG-121	Composition II *	3.0
BIO-225	Human Ana/Phys I *	4.0
LIT-130	Intro to Literature *	3.0
CHM-151	General Chemistry II *	4.0
PSY-271	Intr/Psychology	3.0
	SEMESTER TOTALS	**17.0**

SECOND YEAR

First Semester		Hours
BIO-226	Human Ana/Phys II *	4.0
PED-244	Kinesiology	4.0
PHY-130	College Physics I * +	4.0
MAT-241	Analytical Geom-Calc I *	5.0
	SEMESTER TOTALS	**17.0**
Second Semester		
SPE-111	Intro to Speech Communication	3.0
PHY-131	College Physics II * +++	4.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Elective ^^	3.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

MAT-242	Analytical Geom-Calc II * ^^	4.0

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester
^^ Consult Academic Advisor for appropriate course

PRE-VETERINARY MEDICINE

(AA.PVET) ASSOCIATE IN ARTS

The Pre-Veterinary Medicine major is designed for those students who are planning to transfer to a university such as the University of Illinois to earn a Bachelor of Science degree in Animal Science with a pre-veterinary medicine concentration or seek early admission to a College of Veterinary Medicine. This major can also be used to meet requirements for the pre-veterinary medicine concentration at Eastern Illinois University. This is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution.

The associate in science degree requires the completion of 64 credit hours. The sample course sequence below includes the required 64 credit hours plus additional courses recommended for this major.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR		
First Semester		**Hours**
ENG-120	Composition I *	3.0
BIO-100	Bio Science I	4.0
AGR-206	Intro/Animal Science	4.0
PSY-271	Intr/Psychology	3.0
MAT-140	Algebra With Trigonometry *	5.0
	SEMESTER TOTALS	**19.0**
Second Semester		
ENG-121	Composition II *	3.0
BIO-116	General Zoology *	4.0
SOC-280	Introduction to Sociology	3.0
MAT-211	Math Analysis * or	
MAT-241	Analytical Geom-Calc I *	3.0
HIS-252	West Civil/1660-Present or	
PHI-280	Ethics	3.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR		
First Semester		**Hours**
SPE-111	Intro to Speech Communication	3.0
CHM-150	General Chemistry I *	4.0
PHY-130	College Physics I * +	4.0
ART-250	Understanding Art	3.0
AGR-207	Intro/Ag Economics or	
BIO-225	Human Ana/Phys I	4.0
	SEMESTER TOTALS	**18.0**
Second Semester		
CHM-151	General Chemistry II *	4.0
PHY-131	College Physics II * +++	4.0
ECO-231	Principles of Econ I (Macro)	3.0
BIO-235	Microbiology * or	
BIO-226	Human Ana/Phys II	4.0
HIS-153	History/Culture of Third World or	
PHI-270	Introduction to Philosophy	3.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**71.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester

PSYCHOLOGY

(AA.PSY) ASSOCIATE IN ARTS

This is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution including the math requirements.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
PSY-271	Intr/Psychology	3.0
MAT-125	Statistics *	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	4.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-121	Composition II *	3.0
SOC-280	Introduction to Sociology	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
SPE-111	Intro to Speech Communication	3.0
PSY-277	Social Psychology *	3.0
--- ---	Humanities and Fine Arts (IAI H or IAI F)	3.0
--- ---	Elective ^^	3.0
PSY-278	Family Relations	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
SOS-283	Introduction Research Methods	3.0
--- ---	Electives	15.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**64.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
^^ Consult Academic Advisor for appropriate course

RECREATION

(AA.REC) ASSOCIATE IN ARTS

This is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
REC-180	Leadership/Recreat	3.0
MAT-125	Statistics *	3.0
BIO-100	Bio Science I	4.0
HUM-150	Humanities Through the Arts	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-121	Composition II *	3.0
REC-181	Intro/Comm Recreat	3.0
CHM-101	Physical Science II	3.0
MUS-229	Understanding Music	3.0
--- ---	Mathematics (IAI M) *	3.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
SPE-111	Intro to Speech Communication	3.0
EDU-100	Introduction to Education	3.0
ART-250	Understanding Art	3.0
PSY-271	Intr/Psychology	3.0
REC-190	Camping	2.0
REC-290	Recreation for Special Groups	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
POS-160	American National Government	3.0
SOC-280	Introduction to Sociology	3.0
--- ---	Electives	7.0
PED-285	Fitness for Life	3.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

HED-200	Principles of Health	3.0
HED-178	Responding to Emergencies	2.0

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

SECONDARY EDUCATION-BIOLOGY

(AA.SCED.BIO) ASSOCIATE IN ARTS

Science Education prepares the student to transfer to a senior institution with a major in science education in secondary education. This is a sample list of major requirements. University requirements vary by institution. Consult the catalog from the intended transfer university and a counselor or before registering.

The associate in arts degree requires the completion of 64 credit hours. The sample course sequence below includes the required 64 credit hours plus additional courses recommended for this major.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
MAT-125	Statistics *	3.0
POS-160	American National Government	3.0
BIO-100	Bio Science I	4.0
CHM-150	General Chemistry I *	4.0
	SEMESTER TOTALS	**17.0**

Second Semester		
ENG-121	Composition II *	3.0
CHM-151	General Chemistry II *	4.0
--- ---	Social/Behavioral Science (IAI S)	3.0
BIO-111	General Botany *	4.0
-- ---	Humanties and Fine Arts (IAI H or IAI F)	3.0
	SEMESTER TOTALS	**17.0**

SECOND YEAR

First Semester		Hours
BIO-116	General Zoology *	4.0
SPE-111	Intro to Speech Communication	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
EDU-100	Introduction to Education ^^^	3.0
PHY-130	College Physics I * +	4.0
	SEMESTER TOTALS	**17.0**

Second Semester		
BIO-225	Human Ana/Phys I *	4.0
PHY-131	College Physics II * +++	4.0
HIS-153	History/Culture of Third World	3.0
EDU-210	Diversity/Schools & Societies	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**68.0**

SUGGESTED ELECTIVES

BIO-225	Human Ana/Phys I *	4.0
CHM-243	Organic Chemistry I * +	4.0
CHM-253	Organic Chemistry Lab I * +	1.0

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
^^^ Course requires a 30-hour practicum experience in addition to classroom lecture hours
+ Course only offered fall semester
+++ Course only offered spring semester

SECONDARY EDUCATION-CHEMISTRY

(AS.SCED.CHM) ASSOCIATE IN SCIENCE

Science Education prepares the student to transfer to a senior institution with a major in science education in secondary education with a specialization in Chemistry. This is a sample list of major requirements. University requirements vary by institution. Consult the catalog from the intended transfer university and a counselor or academic advisor before registering.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
MAT-241	Analytical Geom-Calc I *	5.0
CHM-150	General Chemistry I *	4.0
POS-160	American National Government	3.0
--- ---	Humanities and Fine Arts (IAI H or IAI F)	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
ENG-121	Composition II *	3.0
MAT-242	Analytical Geom-Calc II *	4.0
PHY-140	University Physics I * +++	4.0
CHM-151	General Chemistry II *	4.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
SPE-111	Intro to Speech Communication	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
PHY-141	University Physics II * +	4.0
EDU-100	Introduction to Education ^^^	3.0
BIO-100	Bio Science I	4.0
	SEMESTER TOTALS	**17.0**
Second Semester		
HIS-153	History/Culture of Third World	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Electives	8.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**64.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
+ Course only offered fall semester
^^^ Course requires a 30-hour practicum experience in addition to classroom lecture hours

SECONDARY EDUCATION-PHYSICS

(AS.SCED.PHY) ASSOCIATE IN SCIENCE

Science Education prepares the student to transfer to a senior institution with a major in science education in secondary education with an specialization in Physics. This is a sample list of major requirements. University requirements vary by institution. Consult the catalog from the intended transfer university and a counselor or academic advisor before registering.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
MAT-241	Analytical Geom-Calc I *	5.0
CHM-150	General Chemistry I *	4.0
POS-160	American National Government	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
ENG-121	Composition II *	3.0
MAT-242	Analytical Geom-Calc II *	4.0
PHY-140	University Physics I * +++	4.0
CHM-151	General Chemistry II *	4.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
SPE-111	Intro to Speech Communication	3.0
MAT-243	Analytical Geom-Calc III *	4.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
PHY-141	University Physics II * +	4.0
EDU-100	Introduction to Education ^^^	3.0
	SEMESTER TOTALS	**17.0**
Second Semester		
BIO-100	Bio Science I	4.0
PHY-142	University Physics III +++	4.0
EDU-210	Diversity/Schools & Societies	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
	SEMESTER TOTALS	**14.0**
	TOTAL PROGRAM HOURS	**64.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+++ Course only offered spring semester
+ Course only offered fall semester
^^^ Course requires a 30-hour practicum experience in addition to classroom lecture hours

SOCIOLOGY/SOCIAL WORK

(AA.SSW) ASSOCIATE IN ARTS

This is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
SOC-280	Introduction to Sociology	3.0
MAT-125	Statistics *	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	4.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-121	Composition II *	3.0
SOC-282	Social Problems	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
PSY-271	Intr/Psychology	3.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
SPE-111	Intro to Speech Communication	3.0
SOC-284	Sociology/Deviant Behavior	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
HED-200	Principles of Health	3.0
PSY-277	Social Psychology	3.0
	SEMESTER TOTALS	**18.0**
Second Semester		
SOC-286	Racial and Ethnic Groups	3.0
--- ---	Electives	9.0
SOS-283	Introduction Research Methods *	3.0
	SEMESTER TOTALS	**15.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

ANT-200	General Anthropology	3.0
PSY-278	Family Relations	3.0
HSP-120	Introduction to Social Work	3.0

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

SPECIAL EDUCATION

(AA.SPED) ASSOCIATE IN ARTS

This program is designed for students planning to pursue a special education teaching career as a Learning Behavior Specialist I, Deaf and Hard of Hearing, Low Vision and Blindness and Early Childhood Special Education. This is a sample list of major requirements. University requirements vary by institution. Consult the catalog from the intended transfer university and a counselor or academic advisor before registering.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
HIS-155	History of the U.S. I or	
HIS-156	History of the U.S. II	3.0
BIO-100	Bio Science I	4.0
MAT-118	Math for Elem Teachers I	3.0
EDU-100	Introduction to Education ^^^	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
ENG-121	Composition II *	3.0
EDU-190	Introduction/Special Education	3.0
PHY-110	Concepts of Physics or	
CHM-111	Concepts of Chemistry	4.0
MAT-218	Math for Elem Teachers II *	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**16.0**

SECOND YEAR

First Semester		Hours
PSY-271	Intr/Psychology	3.0
PSY-274	Child Development	3.0
SPE-111	Intro to Speech Communication	3.0
HIS-153	History/Culture of Third World	3.0
--- ---	Elective	3.0
	SEMESTER TOTALS	**15.0**
Second Semester		
EDU-210	Diversity/Schools & Societies	3.0
EDU-103	Teaching/Learning W/Technology	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
MUS-229	Understanding Music or	
ART-250	Understanding Art	3.0
POS-160	American National Government	3.0
--- ---	Elective	2.0
	SEMESTER TOTALS	**17.0**
	TOTAL PROGRAM HOURS	**64.0**

See the General Education section at the beginning of this chapter for general education requirements and course listings.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
^^^ Course requires a 30-hour practicum experience in addition to classroom lecture hours

SPEECH COMMUNICATION

(AA.SPCH) ASSOCIATE IN ARTS

The Speech transfer program emphasizes the importance of developing a variety of communication skills for an information economy. The focus on rhetoric, interpersonal skills, and/or mass media prepares students for the junior and senior levels of study in Speech Communication. The following is a sample list of major requirements. Consult a counselor or academic advisor before registering. University requirements vary by institution.

Specific graduation requirements are identified through degree audit. Additional developmental courses in math, reading and English may be required based on placement scores.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
SPE-111	Intro to Speech Communication	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	4.0
--- ---	Humanities and Fine Arts (IAI H or IAI F)	3.0
	SEMESTER TOTALS	**16.0**

Second Semester		
ENG-121	Composition II *	3.0
MAT-125	Statistics * or	
MAT-116	General Education Math *	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Humanities and Fine Arts (IAI H)	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
SPE-200	Interpersonal Communication	3.0
RTV-150	Introduction to Broadcasting	3.0
--- ---	Humanities and Fine Arts (IAI F)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
SPE-213	Intro/Group Discussion * +	3.0
	SEMESTER TOTALS	**15.0**

Second Semester		
SPE-220	Persuasive Speaking * +++	3.0
--- ---	Electives	15.0
	SEMESTER TOTALS	**18.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

RTV-155	Radio TV Announcing	3.0
RTV-160	Radio Station Operation	5.0
RTV-180	Basic TV Production	3.0
CIS-160	Practical Software Application *	3.0
--- ---	Any Approved Elective/Career Elective	3.0

See the General Education section at the beginning of this chapter for general education requirements and course listings. A foreign language may be required at some universities.

* There are prerequisites, course requisites, or minimum placement test scores for this course.
+ Course only offered fall semester
+++ Course only offered spring semester

UNDECIDED

(AA.UND) ASSOCIATE IN ARTS

The sequence below is for students seeking an associate degree to prepare for transfer to a four-year college or university, but have not yet decided on an eventual career path. The intent of this exploratory curriculum is to allow students to actively investigate their educational interests. By utilizing college resources and following guidance from an Academic Advisor, students should be able to change their major from Undecided to a chosen degree program by the end of the first semester of their second year. Students interested in a workforce ready program should not follow this curriculum; they should contact Counseling Services for guidance on workforce ready curricula.

Other suggestions for Undecided students include:

- Contact their Academic Advisor early and often to begin discussing options at Lake Land College.
- Utilize Career Cruising, a skills inventory available through Career Services that can help students clarify career objectives and interests.
- Engage in Career Counseling appointments, available through Counseling Services, to further explore potential career pathways.
- Learn more about the job market and employment trends in specific career areas through speaking with college faculty who coordinate individual programs.

FIRST YEAR

First Semester		Hours
ENG-120	Composition I *	3.0
SFS-101	Strategies for Success	2.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Suggested Electives	6.0
	SEMESTER TOTALS	**17.0**
Second Semester		
ENG-121	Composition II *	3.0
--- ---	Math (IAI M) *	3.0
--- ---	Humanities/Fine Arts (IAI H)	3.0
--- ---	Suggested Electives	6.0
	SEMESTER TOTALS	**15.0**

SECOND YEAR

First Semester		Hours
SPE-111	Intro to Speech Communication	3.0
--- ---	Physical and Life Sciences (IAI P or IAI L)	4.0
--- ---	Humanities/Fine Arts (IAI F)	3.0
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Suggested Electives	3.0
	SEMESTER TOTALS	**16.0**
Second Semester		
--- ---	Social/Behavioral Science (IAI S)	3.0
--- ---	Humanities/Fine Art (IAI H or IAI F)	3.0
--- ---	Suggested Electives	10.0
	SEMESTER TOTALS	**16.0**
	TOTAL PROGRAM HOURS	**64.0**

SUGGESTED ELECTIVES

AGR-206	Intro/Animal Science	4.0
BUS-142	Introduction to Business	3.0
CJS-150	Intro/Criminal Just	3.0
EDU-100	Introduction to Education	3.0
EDU-190	Introduction/Special Education	3.0
ESC-106	Intro Geographic Info Systems	4.0
HRT-201	Introduction to Horticulture	3.0
HSP-120	Introduction to Social Work	3.0
RTV-150	Introduction to Broadcasting	3.0

Suggested Electives: Students are encouraged to take any introductory course in any major or discipline that interests them as a way to learn more about specific degrees. Suggested elective courses will count toward Lake Land College graduation, even if a student ultimately decides on a transfer degree for which the course is not required. Transferability of courses will vary depending on the four-year college or university that the student chooses.

* There are prerequisites, course requisites, or minimum placement test scores for this course.

IN THIS CHAPTER:

- ENROLLMENT REQUIREMENTS
- HOW TO ENROLL & REGISTER
- INTERNATIONAL STUDENTS

ADMISSIONS

ADMISSION POLICY

Lake Land College maintains an open-door admission policy that provides access to higher education for those individuals who can benefit from its comprehensive programs. Admission to the college does not ensure entrance into a particular course or program of study since applicants may have to meet specific requirements for entrance into certain programs. Preference must be given to qualified in-district students and those students from qualified regional programs.

Lake Land College admits students in the following categories:

1. High school graduate.
2. Recipient of a GED Certificate.
3. Transfer student from an accredited college.
4. Non-high school graduate 18 years of age or older.
5. Student whose connection with a secondary school is severed. Any student who is 16 years of age or over and has severed connections with a secondary school, as certified in writing by the chief executive officer of the secondary school in which the student has legal residence.
6. Student currently enrolled in a secondary school program may be accepted into a college course(s). If such courses are offered during the regular school day established by the secondary school or are offered for secondary school credit, prior approval of the chief executive officer of the secondary school district must be received.
7. A gifted student less than 16 years of age may enroll in course work at Lake Land College. A gifted student is endowed with a high degree of mental ability and has an innate general ability which rises above the norm. *A student must meet the following requirements to enroll as a Lake Land College gifted student:*
   a. Be in the upper 10% of his/her class, as certified by school officials.
   b. Have a 3.75% grade point average (based on a 4.00 scale) for prior semester or term.
   c. Have joint approval of the President of Lake Land College and the chief executive officer of the school on the Gifted Student Admissions form. Lake Land College reserves the right to request testing of prospective gifted students.
8. Student in a program for a special group.

ENROLLMENT REQUIREMENTS

DEGREE-SEEKING STUDENTS

Degree-seeking students are those students who are seeking a Lake Land College degree or certificate of 24 or more credit hours.

NON-DEGREE STUDENTS

Non-degree students are those students who wish to enroll in courses at Lake Land College but are not pursuing a degree or certificate of 24 or more credit hours.

PLACEMENT TESTING

Students seeking a degree or certificate are required to complete placement testing. All non-degree seeking students planning to enroll in an ENG or MAT course are required to complete placement testing within the respective area. Students who complete placement testing may retest one time on each section of the test.

ACT, COMPASS AND ACCUPLACER SCORES

ACT scores may be submitted from act.org to be used instead of the placement test. Students who submit ACT scores may also take the placement test and retest.

Highest scores and program requirements determine placement in reading, English, and/or math courses.

Students may submit COMPASS or ACCUPLACER scores from other colleges to the Tutoring and Testing Center. Scores will be entered into the student's record and applied to the Lake Land College placement requirements. (Note: Lake Land College does not accept the other college's placement recommendations.)

If four or more years have passed since a student's last retest, the student may choose to complete one additional retest in each subject area. A minimal fee is charged for each retest.

EXEMPTIONS/WAIVERS FOR TRANSFER CREDIT

Students who present a transcript to Admissions & Records, Counseling Services or an ENG or MAT Division Chair verifying completion of 30 semester hours of college course work in good standing will receive a RDG 050 waiver and are not required to complete the reading placement test. Students who have earned less than 30 semester hours of college course work or were not in good standing must have the appropriate placement test or a transcript verifying successful completion of the required RDG courses. Students who have completed some of the required RDG courses may be placed accordingly.

Students wishing to register for an ENG or MAT course must have the appropriate placement test score or a transcript verifying successful completion of the prerequisite course. There is no 30 semester hour exemption for ENG or MAT courses. Students may present their transcript to Admissions & Records, Counseling Services or the ENG or MAT division chairs to request appropriate placement.

While an official transcript is not required for placement purposes, in order to receive Lake Land College credit for any courses completed at another college, students must send an official transcript and a transcript evaluation request to Admissions and Records.

PREREQUISITE CHECKING

Prerequisite checking is conducted at the time of registration for all RDG, ENG and MAT courses. Students will not be allowed register for RDG, ENG and MAT courses for which they have not met the prerequisite. Students wishing to register for a RDG, ENG or MAT course must have the appropriate placement score, be currently enrolled in the prerequisite course, or have a waiver on file verifying successful completion of the prerequisite course.

Students with a disability may make special arrangements for placement testing by contacting the Coordinator of Student Accommodations.

1. **Associate in Applied Science Degree and/or Certificate Programs.** Students must meet Lake Land College's admission requirements. Certain programs have special admission entrance requirements which must be met prior to being accepted into the program. Refer to the special program for admission requirements.
2. **Associate in Liberal Studies.** Students must meet Lake Land College's admission requirements.
3. **Associate in Arts, Associate in Science and Associate in Engineering Science.** Students must meet Lake Land College's admission requirements and have at least 15 units of high school course work from the following five categories:
   - **a.** Four (4) years of English (emphasizing written and oral communications and literature);
   - **b.** Three (3) years of social studies (emphasizing history and government);
   - **c.** Three (3) years of mathematics (introductory through advanced algebra, geometry, trigonometry or fundamentals of computer programming);
   - **d.** Three (3) years of science (laboratory sciences); and
   - **e.** Two (2) years of electives in foreign languages, music, vocational education or art.

If at the time of admission, it has not been determined from the applicant's final high school transcript that the high school course pattern has been satisfied, the student will be provisionally admitted. The student will remain on provisional status until the high school pattern has been verified or deficiencies have been made up through appropriate course work.

Non-degree students are exempt from completing the Lake Land College placement test or submitting their ACT scores unless:

- The student wishes to enroll in an English or math course in which he/she has not met the prerequisite. Students who have taken the ACT may choose to use their ACT scores instead of taking the placement test. See section on How to Use ACT Scores.

Students who have not successfully completed high school or college geometry, or who do not have a transcript on file documenting completion of the course, will be required to enroll in a college geometry course before enrolling in a MAT 100 or higher course.

- The student is changing from non-degree status to degree-status.

NOTE FOR ALL STUDENTS: It is the student's responsibility to register properly each semester and to satisfy all graduation requirements. This includes meeting course prerequisites for registration. Course prerequisites are included in the Course Description section of the current catalog or in the online Course Descriptions. Students who register for a course without meeting the prerequisite may be removed from the course.

NOTE FOR STUDENTS TRANSFERRING TO LAKE LAND FROM ANOTHER COLLEGE: Transfer students who wish to enroll in advanced courses must present a college transcript documenting successful completion of prerequisite courses.

HOW TO USE ACT SCORES

In order to use ACT scores, students must request that a copy of their scores be sent electronically to Lake Land College directly from ACT. Information about requesting ACT test scores is available at act.org.

Students who have taken the ACT placement exam may choose to use their ACT scores instead of taking the Lake Land College placement test.

REGISTERING FOR AN ENGLISH (ENG) OR MATH (MAT) CLASS

All students who wish to register for an ENG or MAT course, must either complete the Lake Land College placement test consisting of reading, English and mathematics, submit their ACT scores or provide documentation rendering them exempt. The Lake Land College placement test is the same test that is given to all new degree-seeking students at the time of their initial admission to the college. All students are required to register for reading, English and math courses according to the results of the test.

Some English and math courses have additional prerequisites that must be met in addition to the required placement score. These prerequisites are listed in the Course Description section of the college catalog and in the Course Descriptions on the Lake Land College website.

ADMISSIONS & RECORDS HOURS

Admissions & Records is open from 8 a.m. to 5 p.m., Monday – Friday during the academic year and Monday through Thursday during the summer. Additional evening hours are provided by appointment and during specific registration periods. The office is located in the Student Services wing of the Luther Student Center. Hours are subject to change. Students can also contact Admissions & Records online at lakelandcollege.edu.

Admissions & Records' mission is to provide an array of quality services to students (potential, current and past) of all ages from matriculation to graduation. In providing these services staff will be sensitive to the needs of each student.

HIGH SCHOOL STUDENTS

Students who are currently enrolled in high school and are at least 16 years of age may attend Lake Land College. Students who enroll in courses offered during the regular school day or those offered for high school credit, must receive prior approval of the chief executive officer of their high school. An additional application form is required of all high school students seeking admission to the college.

Students who are less than 16 years of age and are considered "gifted" by both their secondary school and Lake Land College, may attend Lake Land College. In addition to the regular application, a gifted application must be submitted.

Students who are 16 years of age or older and have severed their connections with a school system, as certified in writing by the chief executive officer of the high school district in which they have legal residence, will be eligible to attend Lake Land College. In addition to the usual admission materials, an additional application form will be required.

TRANSCRIPTS

Transcripts of a student's complete academic record may be obtained through Admissions & Records or the Internet Registration and Information System (IRIS) in the Laker Hub at lakelandcollege.edu. All requests must contain the complete mailing address of the individual or institution to which the transcript should be sent.

The college reserves the right to withhold transcripts of persons who have unpaid financial obligations to the institution.

TRANSCRIPT EVALUATION

An official evaluation of transcripts from Lake Land College or other regionally accredited colleges and universities is available to students by filing a transcript evaluation form at Admissions & Records. The form is also available online at lakelandcollege.edu. Student copies will not be evaluated. If an informal evaluation is done, the student assumes responsibility for course selection.

OUT-OF-DISTRICT STUDENTS/ CHARGEBACKS

For students residing in the state of Illinois outside of Lake Land College District 517, legislative provisions have been made whereby the community college district of residence may be required to pay the per capita cost of educating a student entering Lake Land College, less the in-district tuition charged. Residents of other community college districts who wish to enroll in a curriculum not offered in their home district should make application to the home district for charge-back tuition assistance well in advance of the time they expect to enroll at Lake Land College.

RESIDENCY

Students will be classified by residency according to the following provisions:

STATE RESIDENT

1. To be classified as a resident of the state, one must have occupied a dwelling within the state of Illinois for thirty (30) days immediately prior to the date established for classes to begin. Students who fail to meet the 30-day state residency requirement may not meet the requirement by attending classes at Lake Land College.
2. The following categories of people shall be classified as residents of Illinois without meeting the 30-day residency requirement:
   - **a.** Federal job corps workers stationed in Illinois.
   - **b.** Members of the armed forces stationed in Illinois.
   - **c.** Inmates of state correctional/ rehabilitation institutions located in Illinois.
   - **d.** Students who are employed full-time in Illinois.

DISTRICT RESIDENT

To be classified as a resident of District 517, one must have occupied a dwelling in the community college district for 30 days immediately prior to the date established to begin classes at Lake Land College. Students who fail to meet the 30-day district residency requirement may not meet that requirement by attending classes at the college for 30 days or more.

OUT-OF-DISTRICT RESIDENT

The following categories of people shall not be classified as residents of the district:

1. Federal job corps workers stationed in the district.
2. Members of the armed forces stationed in the district.
3. Inmates of state or federal correctional/rehabilitational institutions located in the district.
4. Full-time students attending a post-secondary educational institution who have not demonstrated through documentation a verifiable interest in establishing permanent residency.
5. Students who occupy a residence outside the district but who are employed by a firm located in the district.
6. Students attending the community college under the provisions of a chargeback or cooperative agreement with other community college districts.
7. Students on an F-1 visa.

OTHER PROVISIONS

1. Persons who reside in the college district whose primary intent in obtaining such residence is not to attend the college shall be exempted from the 30-day state and/or district residency requirement if they demonstrate through documentation a verifiable interest in establishing a permanent residency.
2. Students who fail to meet the 30-day state and/or district residency requirement may meet that requirement upon presentation of a voter's registration card verifying in-district residency.

3. Any approved change in residency status is not retroactive to previous semesters or terms.
4. Documentation verifying state and district residency may include signed statements on the application as well as other requested documents.

RESIDENCY FOR SPECIAL GROUPS OF STUDENTS

The following groups of people are considered as in-district residents for tuition charges only:

1. Students enrolled in courses taught at business and industry locations in the district.
2. Full-time students enrolled at Eastern Illinois University, except students on an F-1 visa, who will be classified as out-of-state.
3. International students on a F-1 visa who are sponsored by a resident of the Lake Land College district or who have attended a minimum of one semester at an in-district high school.

RESIDENCY FOR SELECT INDIANA STUDENTS

Students who are legal residents of the Indiana counties of Vigo, Clay and parts of Parke and Vermillion south of U.S. Route 36, including high school districts that are either adjacent to or include Route 36 in their district boundaries, are eligible for a special tuition rate.

Any approved change in residence status is not retroactive to previous semesters or terms.

DISTRICT RESIDENTS

The following school districts are included in the Lake Land College district:

Altamont
Arthur
Lovington
Atwood
Hammond
Beecher City
Brownstown
Casey–Westfield
Charleston
Cowden–Herrick
Cumberland
Dietrich
Effingham
Kansas
Lovington
Marshall
Martinsville
Mattoon
Neoga
Newton
(Grove District)
North Clay
(Northern Part)
Oakland
Okaw Valley
Pana
Paris
Ramsey
Shelbyville
Shiloh
South Central
(parts of)
St. Elmo
Stewardson–
Strasburg
Sullivan
Teutopolis
Windsor

INTERNATIONAL STUDENTS

Lake Land College, in accordance with regulations of the U.S. Citizenship and Immigration Services, will admit citizens from other countries who meet the following admission requirements. International students are accepted on the basis of available space in the various educational programs. Consideration is also given to selecting a diversified international student population. All documents should be written in English or accompanied by an official English translation. International student information is also available online at the college homepage at lakelandcollege.edu/international.

ADMISSION OF INTERNATIONAL STUDENTS

The admission of international students will be determined based upon the following criteria:

1. Completion of an International Student Application for Admission.
2. Submission of official transcripts showing completion of the equivalent of a high school (secondary) education.
3. Submission of official transcripts from any previous colleges or universities attended, including training in English as a Second Language. If student plans to transfer credit from a college or university outside of the United States, student must provide an evaluation completed by one of Lake Land College approved credential evaluation services.
4. Submission of a completed International Student Financial Affidavit and corresponding official bank statements or documentation supporting the ability to cover all expenses for an academic year. Tuition is charged at the out-of-state rates for international students, except students who are sponsored by a resident of the Lake Land College district or who have attended a minimum of one semester at an in-district high school, who will be charged tuition at the in-district rate.
5. Submission of proof of health insurance coverage. Students who do not provide proof of health insurance must immediately purchase a policy and submit documentation to the Director of International Studies Program.
6. Students who have satisfied the English Proficiency requirement will be allowed to enroll in regular academic courses without any support from the Intensive English Language Program.

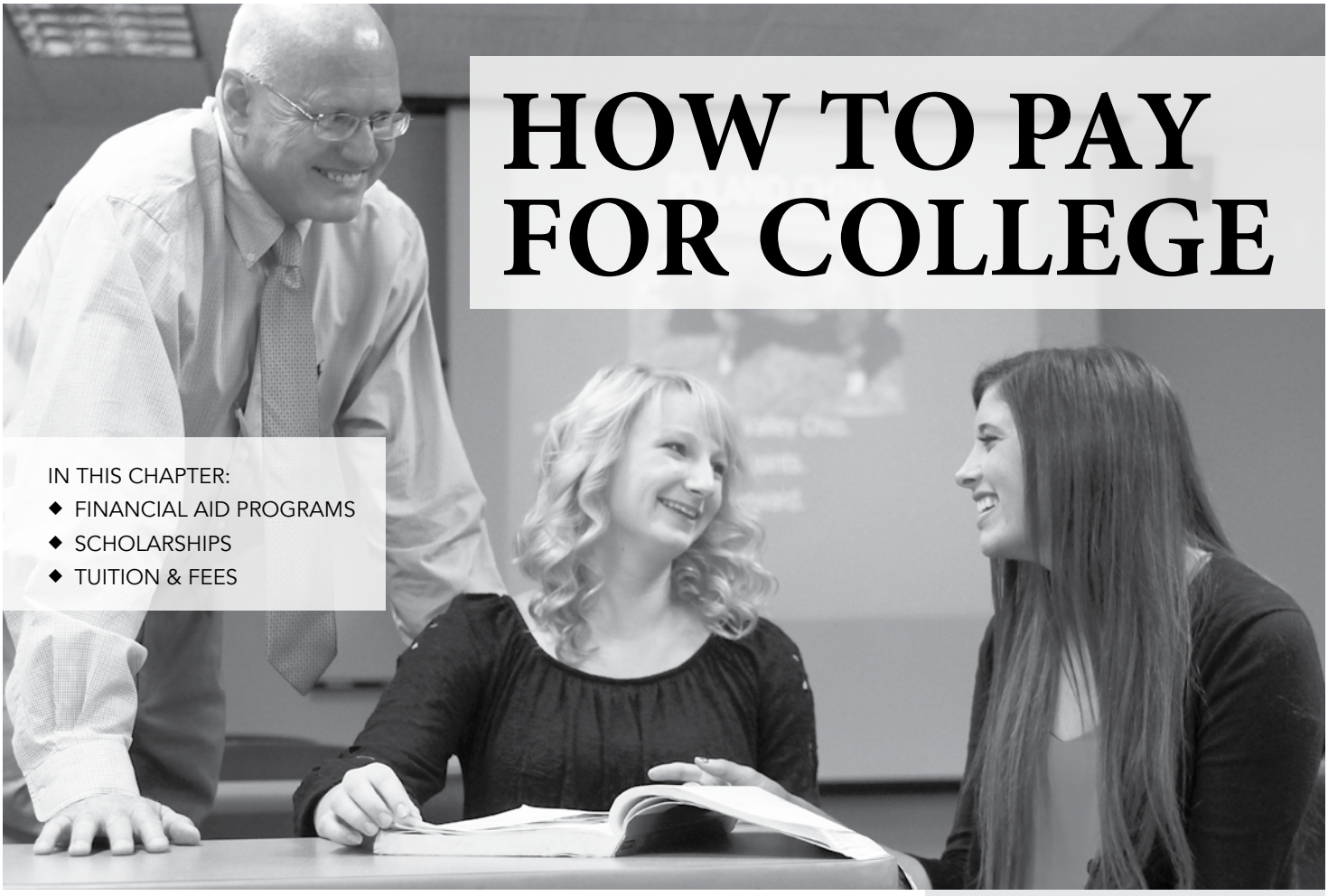
   Students who have not met the English proficiency requirement will be required to enroll in the Intensive English language Program until they are adequately prepared for regular academic courses. Assignment to the appropriate level will be based on Lake Land College placement testing prior to registration.
7. Completion of the Lake Land College placement test consisting of math, reading, and English or submission of ACT scores. This placement test will be deferred for students enrolled in the Intensive English Language Program.
8. Enrollment as a full-time student.
9. Students who already possess an F-1 visa and wish to transfer to Lake Land College must submit copies of current I-20 and F-1 visa.

Enrollment in the 8-week summer IELP session does not allow advancement to the next level or to regular college classes. Summer students are required to continue in IELP through the subsequent fall semester at the least.

INTENSIVE ENGLISH LANGUAGE PROGRAM (IELP)

The Intensive English Language Program (IELP) is designed to assist non-native speakers of English. The program provides beginning, intermediate and advanced instruction in reading, writing, and speaking. Students in the beginning and intermediate levels will be enrolled full-time in the program. Advanced level students may be co-enrolled in one regular college course with the approval of the counselor for international students.

Enrollment in the IELP is mandatory for students who have not taken the TOEFL test or who have scored less than 61 on the enhanced computer-based test. Prior to enrollment, IEL students will take the Michigan English Placement Test (MEPT) to be placed at the appropriate level. Once admitted to the program, students must attain grades of "C" or better in all IEL courses and reach the appropriate score on the post-test using the MEPT. Enrollment in the eight-week summer IELP session does not allow advancement to the next level or to regular college classes. Summer students are required to continue in IELP through the subsequent fall semester at the least.



HOW TO PAY FOR COLLEGE

IN THIS CHAPTER:

- FINANCIAL AID PROGRAMS
- SCHOLARSHIPS
- TUITION & FEES

PAYING FOR COLLEGE

There are several options for paying for college. Lake Land College recommends all students complete the FAFSA or Free Application for Federal Student Aid. Even students who do not believe they will qualify for financial aid should complete it because it is one of the steps required to receive a student loan and is required by the Lake Land College Foundation to be considered for a scholarship. Once students have submitted the FAFSA, Financial Aid will follow up with them regarding next steps.

TYPES OF ASSISTANCE:

1. Federal and state grants
2. Student loans
3. Federal Work Study
4. Lake Land College Foundation scholarships
5. Third-party scholarships

THOSE WHO DO NOT QUALIFY FOR STATE OR FEDERAL FINANCIAL GRANTS HAVE THREE OPTIONS:

1. **Pay the bill in full by the due date.** Payment can be made via mail, online in the Laker Hub, or in person at Accounting.
2. **Sign up for the Nelnet tuition payment plan.**
3. **Request a student loan.** Visit lakelandcollege.edu/financialaid and click on "Student Loans" for information about the Federal Direct Loan Program, eligibility requirements, and the three steps required to request a student loan at Lake Land College.

NET PRICE CALCULATOR

The Net Price Calculator tool provides a broad estimate of how much students likely will have to pay out-of-pocket to enroll full-time at Lake Land College, after considering any grant or scholarship assistance they may be eligible to receive based on standardized inputs. It takes the student's cost of attendance (both direct and indirect costs) and subtracts the possible aid to provide a "bottom-line" dollar amount. The calculator is available on the Financial Aid page of the college website. Be sure to read through the caveats and disclaimers at the end.

TUITION AND FEES

Tuition for credit courses is based on your legal place of residence and charged on a per semester credit hour rate. After registering for courses, students will be able to view their bill online through the Laker Hub. Students who do not pay the total amount due by the due date will have a block placed on their file prohibiting them from receiving transcripts, making schedule changes or registering for future semesters.

The college publishes the current tuition and fees rates on the website.

COURSE FEES
Some courses require payment of a course fee. Course fee levels range from $12 and higher and are listed in the Course Description section of this catalog.

STUDENT ACTIVITY FEE
Students enrolling in on campus and Kluthe Center for Higher Education and Technology courses will be assessed a fee for each semester hour. No activity fee is charged for students enrolled in non-credit continuing education courses, other off campus courses and administratively determined contractual courses. The Student Life section of the catalog explains uses of this fee.

SERVICE FEE
All students enrolled in college credit courses are required to pay a per semester hour service fee. This service fee is comprised of fees for library technology services, registration/ program change services, health services, textbook rental services, funding major maintenance projects, extension center services, publication services and computer network/ Internet services.

TEXTBOOK RENTAL
Lake Land College is among the few colleges and universities across the United States that have a textbook rental system. It is estimated that full-time Lake Land students may save up to $1,400 per year using the textbook rental system versus purchasing their books. Textbooks may be purchased at the request of the student. Refer to the textbook section of this catalog for more details.

INTERNET COURSES
Students enrolling in an Internet course will be assessed a service fee per class. Students must pick up textbooks through the Textbook Rental Service, located in the Lake Land College Bookstore on the main campus. Students unable to pick up and return their textbooks on campus should make arrangements to purchase textbooks through the Bookstore (phone 217-234-5420). Textbooks may also be purchased from other sources. Certain Internet courses may require students to purchase all textbooks. Students can print their textbook list from the Laker Hub.

SENIOR CITIZENS
District 517 residents age 65 or over who have enrolled in a class for credit will have their tuition costs waived, at the current tuition rate, for each credit hour enrolled through the college; however, senior citizens will be responsible for the payment of applicable fees.

TUITION FOR INDIANA RESIDENTS
The Lake Land College Board of Trustees provides a special tuition rate for Indiana residents of the counties of Vigo, Clay, and parts of Parke and Vermilion. Contact Admissions & Records for more information.

TUITION CLASSIFICATION

Any change of tuition classification for students currently enrolled shall be determined by the Dean of Admission Services. Persons responsible for making tuition classification determinations are authorized to require such certificates, affidavits, documents, or other evidence as they deem necessary. In all cases, the burden of proof shall be upon the student making a claim to resident student status.

A student who provides false information or refuses or conceals information for the purpose of achieving resident status, or who fails to notify the Dean of Admission Services of a change of facts which might effect reclassification from resident to non-resident status, shall be required to pay retroactively any tuition fees which would normally have been charged and shall be subject to appropriate disciplinary action, including, but not necessarily limited to, dismissal from the college.

CHANGES FROM NON-RESIDENT TO RESIDENT STATUS

It is the responsibility of the student to apply to the Dean of Admission Services for reclassification to resident status if the student believes that changes in facts justify such a reclassification. The college will not assume responsibility for initiating such an inquiry independently. The student may submit such an application in writing on a form approved by the Dean of Admission Services at any time after the appropriate domiciliary requirements have been met, but no later than 30 days after the day on which classes begin for the session for which reclassification is requested.

CHANGES FROM RESIDENT TO NON-RESIDENT STATUS

If a student is classified as a resident, either the student or the college may initiate a reclassification inquiry, based on changes in facts which would justify such an inquiry. An unemancipated resident student whose parents or legal guardian leave the district and establish domicile outside the district shall be reclassified to non-resident status, effective with the beginning of the next academic session following said change.

TUITION PAYMENTS

Students may pay tuition and fees by cash, check, or bank card at Accounting in the Luther Student Center or online. Bills will be posted to students' accounts and can be viewed online in the Laker Hub. Students can also grant access to a third party to pay their bill through the Parent Portal. The college accepts Visa, MasterCard and Discover.

NELNET PAYMENT PLAN

Lake Land College offers the Nelnet payment plan that allows students to spread their tuition payments out over the semester as opposed to paying their bill in full. Normally, students are required to pay tuition in full by mid-term. If they do not, they are unable to register for classes the next semester or obtain transcripts and have to pay 1.5 percent interest on the balance due.

The Nelnet payment plan has a $25 application fee and is available in the Laker Hub for current students. For more information regarding the Nelnet payment plan or how to sign up call 217-234-5375 or mbailey1292@lakelandcollege.edu.

REFUNDS – INCLUDING FINANCIAL AID

Refund checks will be issued after the fourth week of class and mailed to the student's address on file or through an electronic refund. These checks will be for overpayments resulting from dropped or canceled classes and any financial aid that can be disbursed directly to the student. After this initial disbursement, the accounting office will issue refunds biweekly.

Tuition and fee charges will be reduced and any overpayments will be refunded 100 percent under the following conditions:

- Class is cancelled by a college official.
- Classes meeting 12 weeks or longer – Students have through the first 10 instructional days of the semester
- Classes meeting 8-11 weeks – Students have through the first 5 instructional days of the semester/module
- Classes meeting 3-7 weeks – Students have through the first instructional day of the course
- Classes meeting less than 3 weeks – Students must drop prior to the first instructional day of the course

* Non-standard courses offered by IDOT QC/QA, the Center for Business and Industry and Community and Professional Programs require five (5) college business days' notice in advance of the first class meeting to receive 100% refund.

DATES TO DROP A CLASS AND AVOID CHARGES

1. *The first 10 instructional days (5 instructional days for summer term) for semester-long classes in:*

   Academic Year 2016 – 2017
   Fall 2016: August 22 to September 2
   Spring 2017: January 9 to January 23
   Summer 2017: June 5 to June 12

   Academic Year 2017 – 2018
   Fall 2017: August 21 to September 1
   Spring 2018: January 8 to January 22
   Summer 2018: June 4 to June 11

2. *The first five instructional days for Module 1 classes in:*

   Academic Year 2016 – 2017
   Fall 2016: August 22 to August 26
   Spring 2017: January 9 to January 13

   Academic Year 2017 – 2018
   Fall 2017: August 21 to August 25
   Spring 2018: January 8 to January 12

3. *The first five instructional days for Module 2 classes in:*

   Academic Year 2016 – 2017
   Fall 2016: October 17 to October 21
   Spring 2017: March 13 to March 17

   Academic Year 2017 – 2018
   Fall 2017: October 16 to October 20
   Spring 2018: March 12 to March 16

4. *For classes meeting less than a module in length, see college timetable for listing of first official meeting.*

No refund/repayment will be authorized for withdrawals or changes made after the respective drop period.

Additionally, no refund/repayment will be issued if:

1. A student is withdrawn by the college for disciplinary reasons.
2. A student is withdrawn by the college for non-attendance.
3. A student has financial obligations to the college.

Financial aid recipients should review the refund/repayment policy in the Student Financial Assistance section of the catalog.

ELECTRONIC REFUNDS

Refunds will be issued after the fourth week of class directly to the student. This can be done through paper checks sent to the student's address on record or through an ACH into the student's banking account of choice. Please contact the accounting office at 217-234-5214 for further information on ACHs.

STUDENT FINANCIAL ASSISTANCE

FINANCIAL AID AND VETERAN SERVICES OFFICE LOCATION AND HOURS

Lake Land College Financial Aid and Veteran Services is located in Webb Hall, room 030. Office hours are 8 a.m. to 5 p.m. Monday through Friday. (Summer office hours vary.) Additional hours are provided by appointment and during specific registration periods.

MISSION STATEMENT

The mission of Lake Land College Financial Aid and Veteran Services is to assist students and their families in actively seeking college financial resources in the form of federal and state grants, work study, loans and and scholarships. This will be accomplished in a friendly, caring and helpful manner. Students and families will know that they have been served within regulatory guidelines and in the best manner possible.

TITLE IV FINANCIAL AID PROGRAMS

Through the Higher Education Act of 1965 (HEA) as amended, Congress established the basic regulatory framework which governs the administration of federal financial aid programs nationwide. The HEA is often referred to as Title IV. The programs included under Title IV and administered at Lake Land College include: the Federal Pell Grant Program (FPELL), the Federal College Work-Study Program (FCWSP), the Federal Supplemental Educational Opportunity Grant Program (FSEOG), the Federal Direct Loan Program (DL) and the Federal Parental Loan for Undergraduate Students (DPLUS). Also included in the financial aid programs administered by Lake Land College is the Illinois Monetary Award Program (MAP).

VERIFICATION

Verification is the process by which documentation is used to determine the accuracy of the information that a student has provided when applying for financial aid. Financial Aid verifies data on all applications selected for verification by the U.S. Department of Education. An applicant cannot receive financial aid until the requested

documentation is submitted and verification is completed. Applicants are urged to apply accurately to avoid delays in receiving financial aid.

DETERMINING FINANCIAL AID ELIGIBILITY

Lake Land College administers comprehensive financial aid programs which include scholarships, grants, loans, and federal work-study employment. We believe persons should not be denied access to college due to financial circumstances. Students and their families are assisted by financial aid programs that help cover school expenses, including tuition and fees, room and board, books, supplies and transportation costs. Information concerning financial aid eligibility and application assistance may be obtained from Lake Land College Financial Aid and Veteran Services.

To be eligible for Title IV financial aid programs at Lake Land College a student must:

1. Have a high school diploma, GED or certificate of completion from a home-school program.
2. Be accepted and enrolled in a Title IV eligible degree or certificate program at Lake Land College. Certificate programs of less than 16 credit hours are not eligible;
3. Be in attendance at Lake Land College for the purpose of obtaining an associate degree or eligible certificate;
4. Complete the Free Application for Federal Student Aid (FAFSA) online at fafsa.gov.
5. Forward to the Financial Aid Office all requested documents required to complete verification.
6. If you are a dependent student, complete the financial aid application forms with your parents. Both the student and the parents are expected to understand the forms and accept responsibility for the information reported on them;
7. Sign a statement of Educational Purpose and Selective Service Registration Status. This is part of the FAFSA application and Federal Pell Grant awarding process;
8. Maintain Satisfactory Progress as established for financial aid applicants/recipients, and;
9. Demonstrate financial need.

To determine the financial need factor, a Lake Land applicant completes the Free Application for Federal Student Aid (FAFSA). Financial need is considered to be the difference between one academic year's educational expenses (tuition, books, fees, room and board, personal and transportation) and the student's resources (expected family contribution) for the same period. All students and their families are encouraged to apply early for financial aid and with accuracy.

SUMMER TERM FINANCIAL AID

New students applying before June 30 and continuing students who did not attend at a full time status during the previous two semesters may be eligible for a Federal Pell Grant and/or student loan.

The Illinois Monetary Award Program is not available for any summer term. A limited number of "campus based awards" (FCWSP and FSEOG) may be available. Contact Financial Aid during the spring semester for a Financial Aid Summer Request Form to be considered for a summer term.

NOTE: Summer is the last term in an award year.

MAJOR FINANCIAL AID PROGRAMS

ILLINOIS MONETARY AWARD PROGRAM (MAP)

Under authority granted by the Illinois General Assembly, ISAC administers a program of monetary awards for students in the state of Illinois who attend one of the ISAC-approved colleges, universities, or hospital schools of nursing in Illinois.

To be eligible for a monetary award the applicant must:

- **a.** Be a U.S. citizen or eligible noncitizen.
- **b.** Be a resident of the state of Illinois.
- **c.** Be enrolled in a minimum of 3 hours per term.
- **d.** Comply with federal selective service registration requirements.
- **e.** Be an undergraduate student who has not received a baccalaureate degree.
- **f.** Demonstrate financial need as determined by ISAC from income/asset data supplied on the Free Application for Federal Student Aid.
- **g.** Maintain satisfactory academic progress according to the standards of the institution.
- **h.** Not be in default on any student loan nor owe a refund or repayment on any state or federal grant or scholarship.
- **i.** Not be incarcerated.
- **j.** Not have exceeded the maximum 75 MAP paid credit hours at the freshman or sophomore level.

The awards range from $300 per academic year to a maximum of $4,968 (as currently established by the General Assembly) but cannot exceed the amount of tuition and mandatory fees paid by all students at an institution.

FEDERAL PELL GRANT (FPELL)

The Federal Pell Grant is considered to be the foundation of all Title IV financial assistance programs. Pell is a need-based grant which is generally not repayable. The exact dollar award is determined by the student's course load and the Expected Family Contribution (EFC) number as calculated by the federal government.

FEDERAL COLLEGE WORK-STUDY PROGRAM (FCWSP)

Federal Work-Study is a campus based program awarded through the Financial Aid Office in the form of part-time employment. Students who participate in FCWSP generally work from 10 to 20 hours per week. Eligibility for FCWSP is based on financial need. Federal work-study positions are limited in number.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (FSEOG)

Federal Supplemental Educational Opportunity Grant is a campus based program that is designed to provide federal grant money to students with the greatest financial need. FSEOG awards are awarded to students with a zero expected family contribution who apply before May 1 of the award year.

FEDERAL DIRECT LOAN PROGRAM

FEDERAL STAFFORD LOAN – SUBSIDIZED (DSSL)

Regular students enrolled at least half-time may apply for this need-

based loan. Repayment of this loan begins six months after the student graduates or falls below half-time enrollment. Deferment provisions do exist for the Stafford loan. Interest on the loan is paid by the federal government while you are in school. Initial processing for the loan at Lake Land College begins when applying for financial aid. All Federal Stafford Loan applicants must have their files processed by the Financial Aid Office prior to requesting a student loan.

FEDERAL STAFFORD LOAN – UNSUBSIDIZED (DUSL)

This Federal Stafford Loan program is designed for students who are not eligible or only partially eligible for the subsidized student loan. Subsidized loan eligibility must be determined prior to calculating the unsubsidized loan eligibility. This is not a need-based loan. The applicant is responsible for paying the interest on this type of loan from the date of disbursement.

FEDERAL PARENTAL LOAN FOR UNDERGRADUATE STUDENTS (DPLUS)

Federal PLUS loans are available to parents of dependent students who are enrolled at least half-time. Parents may borrow annually up to the calculated difference between the cost of education less the student's financial aid. Repayment begins on date of disbursement at a fixed interest rate.

HOW TO RENEW FINANCIAL AID FOR NEXT YEAR

Financial assistance administered by the Financial Aid Office is awarded on a year to year basis. To be considered for Title IV assistance for the next academic year, all current recipients must reapply. Adjustments in your eligibility will be made annually to reflect changes in the federal and state eligibility formulas, the financial situation of you and/or your family, the cost of attending college and the amount and type of resources available. The FAFSA for the next award year will be available on or about October 1. As you plan to reapply, remember that financial aid awards are made at Lake Land College on a first-come, first-serve basis. Therefore, timeliness and accuracy of application are very important.

HOW TO KEEP YOUR FINANCIAL AID

FINANCIAL AID STANDARDS OF SATISFACTORY PROGRESS

Lake Land College has established satisfactory progress standards for Federal and State financial aid recipients in accordance with the United States Department of Education regulations. These standards ensure that only those recipients demonstrating satisfactory progress toward the completion of their educational objective continue to receive financial assistance. The "Financial Aid Standards of Satisfactory Progress" applies to all students, regardless of previous financial aid eligibility status. Financial aid programs specifically covered by these standards include: the Illinois Monetary Award, Illinois Veteran Grant, Illinois National Guard Grant, Federal Pell Grant, Federal Work-Study Program, Federal Supplemental Educational Opportunity Grant, Federal Stafford Loan (subsidized and unsubsidized) and the Federal Parent Loan for Undergraduate Students.

SATISFACTORY PROGRESS

The financial aid "Standards of Satisfactory Progress" are measured each semester and determined by a combination of the following elements:

1. **Completion Rate**
   To continue financial aid eligibility students must successfully complete 67 percent of one's official cumulative credit hour enrollment as determined at the end of the "drop/add" period. Grades of 'F', 'W', 'I' and 'U' do not meet satisfactory progress standards. A course for which a grade of 'F' or 'D' was received may be repeated once in establishing satisfactory progress. A student completing approved development/remedial credits while enrolled in a program eligible for financial aid will be able to include those credits toward establishing satisfactory progress.
2. **Grade Point Average (GPA)**
   Whether or not one has previously received financial aid, financial aid recipients must have attained an acceptable minimum grade point average required by the college to remain in good academic standing (see college catalog under, "Academic Standard and Regulations: Scholastic Standing – Minimum Acceptable Standards.")
3. **Maximum Timeframe**
   Regardless of any combination of course work attempted at Lake Land College, a student may not receive financial aid beyond 150 percent of the student's program of study as measured in semester hours.

WARNING, SUSPENSION AND REINSTATEMENT

A financial aid recipient not meeting satisfactory progress standards will be notified and placed on financial aid warning for the next term of enrollment. A student on warning status who does not then meet satisfactory progress standards will be notified and placed on financial aid suspension and lose financial aid. A student suspended from receiving financial aid must meet the Completion and Academic Standards explained above to regain eligibility.

APPEAL PROCEDURE

Because unusual circumstances may influence satisfactory progress, students may file an appeal. Complete details for the appeal procedure are available from Financial Aid. A personal conference with a Financial Aid advisor is required prior to filing an appeal. Decisions of the Financial Aid Satisfactory Progress Appeal Committee are final.

REFUNDS AND REPAYMENTS FOR FINANCIAL AID RECIPIENTS

TITLE IV REFUND POLICY

Federal regulations govern the return of Title IV funds disbursed for a student who completely withdraws from a semester. This rule assumes that a student earns his or her aid based on the period of time he or she remained enrolled. During the first 60 percent of the semester, a student earns Title IV funds in direct proportion to the length of time he or she remains enrolled. The percentage of time during the semester that the student remained enrolled is the percentage of disbursable aid for that period that

the student earned. A student who remains enrolled beyond the 60 percent point earns all aid for the semester. Financial Aid will return unearned aid to the federal government. The student is then responsible for returning the unearned aid he or she received to the college.

FINANCIAL ASSISTANCE FOR VETERANS AND RESERVISTS

Lake Land College is approved for educational G.I. Bill and state veteran benefits. Service members and veterans should contact Financial Aid and Veteran Services for information concerning the financial assistance and/or benefits available to them through the U. S. Department of Veterans Affairs and state of Illinois.

VETERANS BENEFITS

MONTGOMERY GI BILL ACTIVE DUTY (CHAPTER 30)

Provides education benefits to veterans and service members who have at least two years of active duty.

POST 9/11 (CHAPTER 33)

Service members who have at least 90 days of aggregate active duty service after September 10, 2001 and are still on active duty, or are an honorable discharged veteran or were discharged with a service-connected disability after 30 days, may be eligible for this VA-administered program.

MONTGOMERY GI SELECTED RESERVE (CHAPTER 1606)

MGIB-SR program provides education and training benefits to eligible members of the Selected Reserve, including the Army Reserve, Navy Reserve, Air Force Reserve, Marine Corps Reserve and Coast Guard Reserve, and the Army National Guard and the Air National Guard. Eligibility for this program is determined by the Selected Reserve components and VA makes the payments.

RESERVE EDUCATIONAL ASSISTANCE PROGRAM (CHAPTER 1607)

REAP provides educational assistance to members of the Reserve components called or ordered to active duty in response to a war or national emergency declared by the president or Congress.

SURVIVORS AND DEPENDENTS ASSISTANCE (CHAPTER 35)

Offers education and training opportunities to eligible dependents of veterans who are permanently and totally disabled due to a service-related condition or of veterans who died while on active duty or as a result of a service-related condition.

THE MARINE GUNNERY SERGEANT JOHN DAVID FRY SCHOLARSHIP (FRY SCHOLARSHIP)

Available for children and spouses of service members who died in the line of duty after September 10, 2001.

VETERAN'S VOCATIONAL REHABILITATION (CHAPTER 31)

The Veteran's Vocational Rehabilitation is a comprehensive educational program administered by the VA, open to veterans with a compensable, service-connected disability. A monthly stipend is awarded along with all tuition and fees, as well as necessary tools or supplies. Contact the Veterans Administration for more information.

ILLINOIS VETERAN GRANT (IVG)

A veteran who entered the armed forces while a resident of Illinois and has been honorably discharged, may be awarded a scholarship provided he/she has the required period of service. This scholarship pays resident tuition and certain fees at an ISAC-approved institution. Proof of service and residency requirement is provided on the Report of Separation (DD214-4) and must be submitted with the IVG application to ISAC. Applications for the IVG may be obtained from the local Illinois Department of Veterans Affairs Office or the college's Financial Aid and Veteran Services.

ILLINOIS NATIONAL GUARD GRANT (ING)

Enlisted persons who have served one year in the Illinois National Guard or Naval Militia may apply. The ING pays tuition and certain fees for eligible persons attending an ISAC-approved institution. Persons are eligible for ING only during the period they are enlisted in the guard or militia. Applications are secured from your local National Guard Armory Commander or the college's Financial Aid and Veteran Services. Applications must be renewed annually.

MIA/POW SCHOLARSHIP

The state of Illinois provides an education scholarship for the dependents of veterans who are either Missing In Action, a Prisoner of War, died while on active duty, 100% disabled due to service connected disabilities or died as a result of a service connected disabilities.

VETERANS AFFAIRS (VA): POLICY ON SATISFACTORY PROGRESS

Students who are receiving educational benefits through the U.S. Department of Veterans' Affairs (VA) and/or the Illinois Veterans' Grant or Illinois National Guard Grant must continue to make satisfactory progress in their academic major. Satisfactory progress toward an educational objective will be measured in terms of a veteran's cumulative GPA that does not subject him or her to academic probation status for two consecutive terms (see section, Academic Information). If a certified veteran maintains a probationary GPA for two consecutive enrollment periods, the veteran's enrollment certification must be suspended. When the academic probation status is lifted, enrollment certification can be reinstated.

A veteran is expected to complete all of the credit hours he or she is certified for each semester. In some situations a veteran who does not complete all credit hours in a semester may be charged with an overpayment.

Veterans are reminded that they may only enroll in classes which apply to their declared major if they expect to receive G.I. Benefits. In special circumstances veterans may enroll in non-credit developmental/remedial classes such as reading, mathematics and English. Veterans are encouraged to consult frequently with their academic advisor or a Lake Land College counselor in regards to their academic progress.

OTHER FINANCIAL RESOURCES

LAKE LAND COLLEGE RESOURCES

TALENTED STUDENT AWARD PROGRAM

The Talented Student Award (TSA) is a tuition waiver scholarship program for graduating high school and G.E.D. students with outstanding achievement in academics, athletics and livestock judging who attend Lake Land College as full-time students.

Guidelines for the administration of the Talented Student Award Program are presented for approval to the Board of Trustees for three two-year cycles. The TSA guidelines are available from the Office of the Vice President for Student Services.

PRESIDENTIAL SCHOLARSHIP

is for a maximum of two consecutive calendar years and is awarded to in-district high school graduates who have demonstrated outstanding academic performance. Each graduate must rank in the top 15 percent of the senior class or have an ACT composite score of 26 or higher.

LIVESTOCK JUDGING AND ATHLETIC SCHOLARSHIPS

are awarded by Lake Land College coaches for a specific enrollment period to students who, in their judgment, have outstanding ability to perform on their team. All tuition and fees for credit courses are waived except late fees and special assessments for materials used in class. Administration of the athletic scholarship is in accordance with the National Junior College Athletic Association and the Lake Land College Board of Trustees guidelines.

WORK AND LEARN

The Work and Learn Program provides work experience, tuition support and ongoing mentoring for adults who are unemployed or underemployed to attend Lake Land College to earn a Workforce Ready certificate or associate in applied science degree. Students who are at least 24 years of age (or are designated as independent students through the financial aid process) who have earned a high school diploma or GED and have previously earned less than one year of college credit (30 credit hours), may apply through Lake Land College Career Services.

COMMUNITY RESOURCES

VOCATIONAL REHABILITATION GRANTS

The state of Illinois Department of Rehabilitation Services (DORS) may provide funds for tuition, room and board, transportation and other necessary expenses for persons who are found to be disabled. Applicants must have a disability which prevents them from earning a living, getting a suitable job or threatens their continuing employment. Applicants must have a reasonable chance of being able to work in suitable employment after training is provided. Students who have a medical or physical disability should contact an office of the Illinois Department of Rehabilitation Services for further information. In Mattoon, DORS is located at 129 North 15th Street; 217-235-3154.

SPECIAL SCHOLARSHIPS

The Illinois Student Assistance Commission (ISAC) sponsors scholarship programs for special groups. These include dependents of policemen and firemen killed in the line of duty; dependents of correctional workers killed in the line of duty or permanently disabled; and teacher shortage scholarships. Information for these special programs may be obtained by visiting isac.org or by calling the Illinois Student Assistance Commission at 800-899-4722.

COMMUNITY SERVICES BLOCK GRANT

The Illinois Department of Commerce and Community Affairs (DCCA), through local offices, provides an assistance program for students enrolled in training for high-employment potential fields. Eligibility is based on need and likely success in a chosen curriculum. Contact the DCCA, Division of Economic Opportunity, 217-785-6206, for the location of the community action office in your county.

DISLOCATED WORKER SERVICES

This program offers assistance to people unemployed due to a business closing or a permanent layoff. The Dislocated Worker Program can provide vocational classroom training, on-the-job training, job search assistance, personal counseling and other support services. For application and eligibility procedures, please contact the Dislocated Worker Program at 305 Richmond Ave. East, Mattoon, 217-235-2222, ext. 8276.

PUBLIC ASSISTANCE GRANT PROGRAM

Students with an active DHS case ID may be eligible for tuition assistance for a maximum of 12 credit hours. For a list of approved classes and a determination of eligibility, contact the Lake Land College Adult Education Program or phone 217-235-0361, ext. 228.

PRIVATE SCHOLARSHIPS

Be sure to look into local community for possible funding. Often community public service organizations, local lending institutions, fraternal orders, business clubs and industries sponsor a variety of private scholarships. State legislators and senators can award scholarships. In addition, regional superintendent of schools may publish a comprehensive listing of scholarships and grants. See also, Lake Land College Foundation Scholarships in this catalog. Visit the website for additional information on scholarship searches.

LAKE LAND COLLEGE FOUNDATION SCHOLARSHIPS

BUILDING BRIGHTER FUTURES AND STRONGER COMMUNITIES THROUGH EDUCATION

TIPS FOR SUBMITTING A SCHOLARSHIP APPLICATION TO THE LAKE LAND COLLEGE FOUNDATION

- ✔ **Use proper grammar and punctuation** when completing the application and the personal statement essay questions.
- ✔ **Proofread your application.** Give extra attention to the three essay questions.
- ✔ **Highlight strong points.** Students need to express why they deserve a scholarship over other applicants to a committee.
- ✔ **Make sure the application is complete.** Complete all requested information as well as the personal statement essays and sign and date the application.
- ✔ **Turn in a new application each academic year.** Students must submit a new application each year.
- ✔ **Submit application online.** Submit the application online at lakelandcollege.edu/foundation.
- ✔ **Turn application in on time.** The deadline is February 1.

Scholarship awards range from $200 to $3,500 per year. Scholarship applications are due February 1 each year. Recipients will be notified by April 1 if they will be receiving a Foundation scholarship. Scholarships are not automatically renewed, and students must reapply each year. Information pertaining to scholarships, guidelines for individual scholarships and applications are available by contacting the Foundation at 217-234-5445, foundation@lakelandcollege.edu or online.

Please note that only one application needs to be completed for consideration of all Foundation Scholarships. In addition to the Foundation's scholarship application, a special application is required for the Lake Land College Faculty Association. Contact the Foundation at 217-234-5445 for information on these scholarships.

A complete listing of available scholarships is available on the Foundations' website at lakelandcollege.edu/foundation.

The Lake Land College Foundation was established exclusively for educational, scientific and charitable purposes. The Foundation assists the college in developing and enhancing the educational opportunities and service to its students, alumni and citizens of the district. The Foundation is chartered under the Internal Revenue Code as a 501 (c) (3) tax exempt, non-profit organization, which may accept gifts of money, property, works of art, historical papers and documents, museum specimens and other materials having educational, artistic or historical value, and by such other proper means as may be deemed advisable. The thrust of the Foundation is to provide student scholarships through funds contributed by individuals, agencies and corporations.

RESOURCES

TO HELP YOU BE SUCCESSFUL

IN THIS CHAPTER:

- BOOKSTORE
- CAREER SERVICES
- COLLEGE NURSE
- COMMUNICATION
- COUNSELING
- LEAP
- LIBRARY
- ONLINE LEARNING
- PERKINS PROGRAM
- POLICIES
- STUDENT ACCOMMODATIONS
- TRiO
- TUTORING AND TESTING CENTER
- VETERANS

COMMUNICATION AT LAKE LAND COLLEGE

Lake Land College communicates with students via Laker Mail and the student portal, called the Laker Hub. One of the first steps new students should do is activate their user ID and password.

USER ID – Students can find their User ID by going to the Laker Hub Login and clicking on the lower left link "What's My User ID?" The system will ask for a last name and social security number. It will then display the user ID.

PASSWORD – Initially, a student's birthday in six digits (XXXXXX). A prompt to change the password will appear.

STUDENT ID NUMBER – A unique seven digit number generated when a student submits an Intent to Enroll. This number is used throughout the college in place of a social security number to identify a student.

LAKER HUB – A centralized portal containing all the communication and student engagement tools a student needs to be successful!

LAKER MAIL – Key to communicating successfully with Lake Land faculty, staff and departments such as Financial Aid.

IRIS – Internet Registration and Information System that contains a student's personal account information, accessible through the Laker Hub.

CANVAS – An Internet-based course management program that instructors and students use for both face-to-face and online classes. It is accessible through the Laker Hub.

COUNSELING SERVICES

The mission of Counseling Services is to promote student development theory and practice.

INDIVIDUAL ASSISTANCE

Counselors provide free and confidential assistance with:

- Educational and career development
- Information regarding Lake Land College degrees and transfer requirements
- Crisis intervention and referral to campus and community resources
- Developing strategies to enhance life and academic skills.

COUNSELING HOURS

Counselors are available 8 a.m. – 5 p.m., Monday – Friday when classes are in session. (Hours are subject to change.) Evening meetings are available by appointment. Summer hours vary. An appointment is recommended to reduce waiting time, but is not always required. Members of the counseling staff are available at various off campus centers throughout the year. Please call 217-234-5232 or email counsel@lakelandcollege.edu, for information about arranging to meet with a counselor.

A counselor accepts appointments at the Kluthe Center for Higher Education and Technology in Effingham when classes are in session. Please phone 217-234-5232, to schedule an appointment.

NEW STUDENT ORIENTATION

New students at Lake Land College who plan to seek a degree or certificate of 24 or more hours will participate in an orientation program. This program provides new students with information and skills needed for a successful transition to college and beyond. New students will participate in a variety of activities designed to empower them to be successful in both academic and personal decision-making processes. As part of the orientation program, new students will register for courses for their first term of enrollment.

SUCCESS COURSES

Lake Land College offers three classes that can help you with balancing class, work, finances and home. All three courses may be taken to satisfy graduation requirements at Lake Land College. SFS 101 Strategies for Success is a course to improve new student transition into college and the development of life skills. Research on SFS 101 has shown a positive relationship between student enrollment in the course and grade point average, college persistence and graduation. SFS 102 Strategies for Money Management is a course designed to assist students with improving their financial planning and budgeting skills. SFS 103 Life Strategies is designed for sophomore level students and will assist students in learning critical thinking skills, creating effective goals and creating a successful life and financial plan. Students may not earn credit for enrolling in both SFS 102 Strategies for Money Management and SFS 103 Life Strategies. Students may earn credit for enrolling in SFS 101 Strategies for Success and SFS 102 Strategies for Money Management.

ACADEMIC ADVISEMENT

Counselors assist in the advisement and registration of students enrolling at Lake Land College for the first time or returning students not registered for the previous term. Following the first term of enrollment, continuing students who plan to earn a degree or certificate of 24 more hours are assigned a faculty advisor. Advisors will assist students with goal identification, career planning, developing an educational plan, and choosing appropriate courses for graduation. All students must contact their advisor to be eligible for registration each semester. Students can identify their advisor by visiting the Advisement Information page under Registration on the Laker Hub.

STUDENT ACCOMMODATIONS

Lake Land College employs a Counselor/Coordinator of Student Accommodations to provide student accommodations for students with a variety of disabilities. Disabilities may include visual, auditory, speech, psychological, physical, health or learning.

Student accommodations are tools used by students to help them achieve their full potential. Examples of some services are: recorded textbooks/materials, interpreters for hearing impaired, tutors, testing accommodations, advising and assistive technology. Since needs vary from person to person, the determination of service is completed on an individual basis. Application for support services is made by completing all forms in the Student Accommodations Application packet. Once the required information is received, an appointment with the Counselor/Coordinator of Student Accommodations will be arranged.

The architectural design of the campus and buildings is such that Lake Land College has been deemed very accessible by the Illinois Department of Rehabilitation Services. Adaptations have been made in the following areas to accommodate individuals: reserved parking for students with physical disabilities, ramps in parking lots and at access doors to all main buildings, restrooms designed for full access, an elevator in the Virgil H. Judge Learning Resource Center and automation of selected doors for all major classroom buildings.

Lake Land College has an institutional commitment to provide a quality educational experience to all students. In order to make Lake Land College more receptive to students with disabilities, please identify your needs well in advance of the term you wish to attend to ensure that the necessary accommodations can be provided. If the college does not receive advance notice, then the college may not be able to provide accommodations for the first term. Certain accommodations are available only on campus. People who are deaf or hearing impaired may contact the Counselor/Coordinator of Student Accommodations by emailing counsel@lakelandcollege.edu. Student Accommodations is open 8 a.m. until 5 p.m. Monday through Friday. (Hours vary between terms and in the summer.) Evenings available by appointment. For more information, phone 217-234-5259 or visit the website.

VETERANS AFFAIRS

Lake Land College appreciates the service of active-duty and veteran students and seeks to provide the services needed to support these students with their initial transition to college and throughout their enrollment. Following is a summary of services currently available.

1. *Contact information for the coordinator of veterans services:*

Veterans Advisor
Financial Aid and Veteran Services
Webb Hall
217-234-5255
financialaid@lakelandcollege.edu

Information regarding military educational benefits, military/other credit evaluation, and the student veterans' organization.

Coordinator of Student Accommodations
Counseling Services
Luther Student Center
counsel@lakelandcollege.edu
217-234-5259

Information regarding educational accommodations, support related to PTSD and TBI, referral to other college and community resources, and the student veterans' organization.

2. Lake Land College identifies veterans and active duty military personnel through the admissions application and financial aid process.
3. Lake Land College serves about 425 veterans a year.
4. Special services are available to veterans, active duty personnel and their families through the offices of Admissions & Records, Financial Aid and Veterans Services and Counseling Services.
5. Lake Land College Board Policy 07.39 provides that students called to active duty during the semester may request to be withdrawn from the class and receive a 100% refund, try to complete the courses in progress, or request incomplete grades. The most appropriate action will depend on the time during which the student is called to duty. Students called to duty should contact their instructors and the Dean of Admissions Services at 217-234-5378.
6. Lake Land College accepts military credit according to the ACE Guide to the Evaluation of Educational Experiences in the Armed Services and accepts DANTES credits. Veterans may earn 4 hours of college credit for completing basic training by submitting a DD214 with honorable discharge or other proof of completion of basic training. Submission of an AARTS transcript will help expedite the evaluation process.
7. Professional development training related to veterans and active duty personnel is available to Lake Land College staff. Interested staff should contact the Coordinator of Student Accommodations at 217-234-5259.
8. Student veterans, active duty military personnel and family members may take advantage of all of the support services available to other Lake Land College students. Those services include, but are not limited to: Academic Advising, Career Services, Child Care, Counseling, Financial Aid, Learning Assistance Center/Tutoring, Library, Student Accommodations, and TRiO Student Support Services. Descriptions of the services available and the contact information for each area are provided on the website.
9. Student veterans, active duty personnel and family members may also take advantage of social events and other activities provided to other Lake Land College students through Student Life. Descriptions of the student life opportunities available and contact information are available on the website.

TRiO STUDENT SUPPORT SERVICES

The TRiO Student Support Services (SSS) mission is to provide an environment that promotes academic, social, and personal growth for first generation and economically disadvantaged students, and/or students with disabilities. Student Support Services annually serves 160 Lake Land College students and provides opportunities in the following areas:

- Academic, personal and financial counseling
- Workshops – leadership, communication, learning techniques, personal finance
- Career research – assistance with interviews and writing resumes
- Transfer opportunities to four-year institutions and visits to area universities
- Technology resources
- Tutoring – individual or group tutoring services
- Financial aid guidance – assistance completing the FAFSA and scholarship applications
- Increase retention, graduation and transfer rates

TRIO Student Support Services is located in Webb Hall, room 052.

For more information, phone 217-234-5456, email triosss@lakelandcollege.edu or visit the TRiO website lakelandcollege.edu/triosupportservices/.

EARLY ADVANTAGE PROGRAM (LEAP)

Students who are struggling in a course or with life challenges can ask their instructor about the Lake Land College Early Advantage Program (LEAP).

The LEAP program is confidential and designed to help students link to campus and community resources to improve their chance for success.

If you are referred to LEAP by your instructor, you will receive an email in your Laker Mail account requesting that you contact the program for an appointment.

Students may also submit a self-referral from the Laker Hub home page. Let us help you successfully move toward your academic and life goals – check out LEAP today!

For more information about LEAP, contact Counseling Services or visit the Counseling Services website under "Strategies to enhance life and academic skills."

TUTORING AND TESTING CENTER

The mission of the Tutoring and Testing Center is to offer tutoring services that will aid in removing obstacles to learning, to oversee placement testing and assignment into the appropriate levels of college coursework, and to provide supplemental support to students with disabilities. All services are provided in such a way as to ensure responsiveness and sensitivity to individual differences in all learners.

The Tutoring and Testing Center, located in Webb Hall, is designed to help students develop the skills necessary to improve academic performance and personal satisfaction. The services of the Tutoring and Testing Center are available to students and include the following areas:

- Tutoring in college courses
- Administration of the basic placement test battery for the college

- Supplemental services for students with disabilities
- Administration of pre-nursing exams and testing for various programs
- Distance learning test proctoring
- CLEP testing
- Basic skills courses in memory, test taking, and computer anxiety

For more information, call the Director of the Tutoring and Testing Center at 217-234-5301.

CAREER SERVICES

The mission of Career Services is to educate and support individuals with their career development skills and job search initiatives. From career exploration to realizing success on the job, Career Services can help individuals devise a customized career plan/job search strategy to:

- Clarify career objectives before choosing an academic program;
- Explore interests, skills and abilities and match them with various careers;
- Find and evaluate career information
- Learn more about a particular business or industry;
- Become adept at job-search techniques, such as networking, resume writing and effective interviewing skills; and
- Research current job opportunities

Career Services provides access to software and web resources on career exploration and assistance with all aspects of the job search.

CONFUSED OR UNDECIDED ON A MAJOR?

Career Services offers career interest software and career counseling services. The online career guidance program helps people explore their career-related interests and skills. The system provides in depth information on thousands of career options and offers an online portfolio that is free and accessible for life. Career counseling utilizes the results of the career guidance program, utilizes face-to-face meetings and can take from one to four appointments. These sessions are a great time for students to talk with a professional about what they want and enjoy in life and how those things fit into possible careers. For free access to the online career guidance program or to make an appointment for career counseling, contact Career Services at careerservices@lakelandcollege.edu or 234-5288.

COOPERATIVE WORK STUDY PROGRAM

The Cooperative Work Study Program (CWSP) offers students seeking a degree or certificate the opportunity to complete an internship and gain work experience related to their academic majors. Students can earn an income and credit to apply to their degree or certificate. The student needs to have completed at least 12 college credit hours, have at least a 2.0 grade point average and be interested in gaining valuable work experience. Call the Career Services Representative at 217-234-5457.

JOB SEARCH ASSISTANCE

The job search is a critical component of an individual's career success. Career Services offers assistance with all aspects of the job search process, including resumes, cover letters, references and interviewing. In addition, local and regional job listings are posted by employers and are available on the Career Services website.

Want help or more information? Career Services is open daily from 8 a.m. to 5 p.m. Evening hours available by appointment. Summer hours vary.

LIBRARY

The Library is located in the center of the Lake Land campus in the Virgil H. Judge Learning Resource Center. The Library provides access to more than 21,000 items (including books, DVDs, and CDs) as well as print periodicals and newspapers. Additionally, the library subscribes to several online database services, which provide access to information from more than 70,000 magazine and journal titles as well as legal, business, biographical, and newspaper sources, and over 55,000 e-books. To access the online services, go to the Articles, Databases, eBooks link on the library website.

In addition to local resources, the Library provides direct access to the collections of more than 450 libraries in Central and Southern Illinois through SHARE, a shared online catalog system. Students may also search the holdings of the major colleges and universities across the state through I-Share, as well as the holdings of thousands of libraries across the country through the WorldCat service.

Library services are available to students, faculty, staff, and residents of the Lake Land College district. Most materials can be checked out for use at home, and telephone and online renewal is available for most items. There is a public-use photocopy machine for making copies from non-circulating materials. The public is welcome to use all of our resources on-site, but access to some services (especially off-campus access to databases) is restricted to students, faculty, and staff.

Food and drink are not permitted on the main floor of the library, but can be enjoyed in The Second Story, the library's lounge space on the upper floor. In addition, rooms are available to practice presentations and to schedule group study sessions.

The Library hosts art shows featuring the work of local and regional artists, and regular displays tied to celebrations of cultural events. Artists who are interested in displaying their work in the Library should contact the Information Services Librarian at 217-234-5440. For more information about library services, contact the Circulation Desk at 217-234-5367. For assistance with research inquiries, contact the Reference Desk at 217-234-5440. Visit the Library website for a posting of current hours and additional resources.

BOOKSTORE

The Bookstore is located on the south end of the northwest parking lot of the main campus. The store provides all required and recommended textbooks, workbooks and supplies. The Bookstore has a full selection of Lake Land College clothing.

The Bookstore is open Monday – Friday from 8 a.m. – 5 p.m. with extended hours during book pickup and return. (The Bookstore is closed Friday during the summer term). For more information on services, call 217-234-5420.

ONLINE LEARNING

Lake Land College online courses are instructor-led with the majority of the course taught over the Internet. While online courses provide flexibility, they do require a lot of self-discipline and motivation. Online students should have basic computer knowledge. If students are not

familiar with computers, the college recommends enrolling in CIS040, Introduction to Computers, before taking an online course.

The college's online learning site at ctpd.lakelandcollege.edu/online provides many resources for students thinking about or taking online courses including:

- Are Online Courses for Me? Self-Evaluation resources for potential online students, technical requirements needed to take an online course and frequently asked question information to ensure a successful start is provided.
- Learning Management System Tutorial Workshops The online learning site provides a tutorial to the learning management system utilized by online instructors and by instructors who utilize the system for traditional courses at the college. In addition, the college provides face-to-face training sessions at the beginning of each semester. Go to the college's online learning site for dates and times.
- Proctoring Services Tests and quizzes for courses are usually completed online; however, some instructors may have their tests proctored on campus. For more information on proctored tests, phone 217-234-5247 or email, proctor@lakelandcollege.edu. A photo ID is required to have a test or exam administered.
- Textbooks Students taking internet courses must pick up rented textbooks/ CDs through the Textbook Library Service, located in the Lake Land College Bookstore on the main campus. Students unable to pick up and return their textbooks/ CDs on campus should make arrangements to purchase these items through the Lake Land College Bookstore (phone 217-234-5420) or from other sources.

The Center for Technology and Professional Development (CTPD), located in the Virgil H. Judge Learning Resource Center, provides support for students who want to take online courses. The CTPD staff can be contacted at 217-234-5439 or by email at ctpd@lakelandcollege.edu or in person.

PERKINS PROGRAM

The Perkins Program is a federally funded initiative designed to help students to succeed in technical programs. Carl Perkins Grant funds are used in part to assist technical program students who are at risk of not succeeding in their educational pursuits. The federal government has identified specific indicators that may prevent students from successfully completing their educational goals. These barriers include: economic disadvantage, disability/disabilities, single parent or displaced homemaker status, enrollment in a program where one's gender is underrepresented (nontraditional) and limited English proficiency. Students who fit into one or more of these categories may be eligible for Perkins support services through the Perkins Program, this may include tutoring, assistance with the purchase of supplies, workbooks and uniforms, and assistance the transportation costs (single parent/ displaced homemakers only.) More information is available by calling 217-234-5372, or visit the website.

HEALTH SERVICES/ COLLEGE NURSE

Student Health Services is located in the Luther Student Center. The College Nurse is available to discuss any questions or to help students in regard to physical disorders or health related circumstances, and provide emergency first aid treatment and various medical services. However, it is recommended that students subscribe to the student health insurance program or have a private policy that provides comprehensive medical and surgical benefits. Contact Health Services for more information.

Health Services also offers assistance in obtaining the services of local physicians and agencies, if necessary. Over-the-counter drugs are available. Health promotion programs on substance abuse, nutrition, infectious disease, physical fitness and other topics are provided by this service. Cost of hospitalization, doctors appointments, prescription medicine, X-rays and laboratory fees must be covered by students.

In case of prolonged absences because of illness, accident or hospitalization, students should notify Health Services so proper notification can be made to instructors. Hours are 8 a.m. to 5 p.m. Monday through Friday, phone 217-234-5276.

COMMUNICABLE DISEASES

The Lake Land College Board of Trustees policy on Chronic Communicable Disease (4530) provides rules and regulations for students with communicable diseases. Students who are diagnosed as having or carrying a communicable disease should report to the College Nurse. Communicable diseases are those defined by the Illinois Department of Public Health to be contagious, infectious, communicable and dangerous to the public health. A student shall be permitted to remain in class whenever, through reasonable accommodation, there is no significant risk of transmission of the disease to others.

PHYSICAL EXAM

Only those entering programs in Dental Hygiene, Associate Degree in Nursing and Practical Nursing must request a special form for a physical exam.

COLLEGE CLOSING

In the event of inclement weather, mechanical or power failure, or other emergencies, the following procedures will be implemented. Every effort will be made to keep the college open. In some cases, Lake Land College will remain open when elementary and secondary schools are closed.

When weather conditions prevent the opening of the college or cause a delayed opening of the college, every effort will be made to make announcements on area radio stations and TV stations by 6 a.m. for that day. A listing of the stations used is posted each year on the college's website.

Closings are also posted on the college's website: lakelandcollege.edu.

TEXT NOTIFICATIONS

Students can opt in to receive closing notices via a text message or email. This can be done in the Laker Hub.

Cancellation of day classes is not an automatic closing for evening sessions. The decision to close classes that begin at 5 p.m. or later will be made as close to 2 p.m. as possible. The same radio and TV stations also will carry closing announcements in the event that evening sessions or activities have to be canceled on a day that the college was otherwise open. Classes held at college extension centers will follow the general policies of the main campus; however, classes held at other off-site locations will follow the policy for that location.

STUDENT HANDBOOK AND RIGHT-TO-KNOW INFORMATION

An online Student Handbook provides critical information for all prospective and current Lake Land College students. The online handbook provides quick links to information and policies all students should know such as privacy of educational records, alcohol and drug use prevention and support, academic standards, expectations for student behavior, and addressing sexual harassment and sexual misconduct.

A link to the handbook is sent to all current students at their college email address and can be accessed at any time at lakelandcollege.edu/studenthandbook. All students are encouraged to review each section of the handbook each semester and to ask questions as they arise throughout their enrollment.

STUDENT RIGHTS AND RESPONSIBILITIES

State statutes provide that the legal responsibility for adopting and enforcing all rules and regulations for the orderly operation of the college rests with the Lake Land College Board of Trustees. The responsibility for enforcing regulations and policies adopted by the board is delegated to the college administration and staff.

STUDENT CONDUCT AND DISCIPLINARY PROCEDURES

Students as members of the academic community are expected and required to observe certain standards of behavior. Also as citizens, students have a responsibility to know and obey the laws of the United States, the state of Illinois, and local governments. Policies governing student conduct and disciplinary procedures can be found in the Student Handbook available online at lakeland college.edu/studenthandbook.

STUDENT CONCERNS AND GRIEVANCES

Students who have a concern about an issue that adversely affects them or someone else or feel their rights have been infringed upon by the enforcement of policies and regulations may, through appropriate channels, work to resolve such problems by following procedures outlined in the Student Concerns and Grievance section of the Student Handbook. The Student Handbook is available online at lakeland college.edu/studenthandbook.

CAMPUS SCHEDULING

The Office of the Vice President for Business Services coordinates the campus scheduling, including the college's 299-seat theater and Field House. Seminars, workshops and special programs are also planned and coordinated through this office which can be reached at 234-5223.

POLICIES

In compliance with state and federal statutes, Lake Land College has the following policies:

AFFIRMATIVE ACTION/ EQUAL OPPORTUNITY

Lake Land College is committed to maintaining a working and learning environment that promotes equal opportunity and affirmative action and that is free from unlawful discrimination and harassment. It is the policy of Lake Land College not to engage in discrimination or harassment against any person because of race, color, sex, age, religion, national origin, ancestry, disability, marital or civil union status, veteran status, sexual orientation or any basis of discrimination precluded by applicable federal and state statutes. This policy applies to admission and access to and participation, treatment and employment in the College's programs, activities, and services.

The following campus office is assigned the responsibility for ensuring compliance with this policy as well as federal and state statutes and regulations concerning affirmative action and equal access:

Office of the Director of Human Resources / 217-234-5210 / Human Resources Office

Complaint forms and procedures for filing can be obtained through Counseling Services or Human Resources. In addition, these offices will maintain current copies of appropriate laws, regulations, and policies.

ANTI-HARASSMENT POLICY

Lake Land College is committed to maintaining a working and learning environment in which all individuals are treated with respect and dignity. Faculty, staff and students have a right to work and learn in an atmosphere that promotes equal opportunity and prohibits discriminatory practices such as harassment.

Workplace and academic environment harassment is a form of discrimination. Unlawful harassment includes unwelcome verbal, written or physical conduct by any one person toward another person based on that person's race, sex, color, national origin, religion, sexual orientation, age, veteran status, political affiliation or disability. Any such conduct which harasses, disregards, interferes with work or academic performance or creates an intimidating, offensive or hostile environment is prohibited by this policy.

Sexual harassment is defined as any unwelcome sexual advances or requests for sexual favors or any misconduct of a sexual nature when (1) submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment or academic standing, (2) submission to or rejection of such misconduct by an individual is used as the basis for employment or academic standing decisions affecting such individual, or (3) such conduct has the purpose or effect of substantially interfering with an individual's work or academic performance or creating an intimidating, hostile or offensive work or academic environment. Sexual harassment may involve the behavior of a person of either sex. Sexual harassment is prohibited by this policy.

Employees and students are encouraged to report all incidents of harassment and sexual misconduct. Anyone who believes that he or she is being harassed by a co-worker, faculty member, student, supervisor, administrator or other individual at the College, or believes that his or her employment or academic career is being adversely affected by such conduct should immediately report such concerns.

WHERE TO GO FOR HELP ON CAMPUS

For further information about the anti-harassment policy and complaint resolution procedures, you may contact one of the Anti-Harassment Information Centers listed below:

- Counseling Services, Luther Student Center, Student Services wing, 234-5232
- Health Services, Luther Student Center lobby, 234-5276
- Human Resources, 234-5210

CONFIDENTIALITY OF STUDENT RECORDS AND DIRECTORY INFORMATION

In accordance with provisions of Public Law 93-380, as amended (P.L. 93-568), the Family Educational Rights and Privacy Act of 1974, commonly known as the "Buckley Amendment," Lake Land College maintains only those "Educational Records" which are essential to the process and procedures required to develop and maintain an accurate academic record for each student and to support such student accounting needs and requirements as are imposed by law, state and federal regulations, and college operational procedures. These records may be found at the following offices: Admissions & Records, Accounting, student services offices, academic divisions, departments and advisors. Subject to provisions of college policy, students may review their records upon request.

WHAT THE COLLEGE CAN RELEASE ABOUT YOU

Information contained in a student's educational record is confidential and will only be released upon appropriate written authorization of the student, with the following exceptions:

1. Lake Land College may disclose education records or components thereof without written consent of students to:
   - **a.** Authorized representatives of the following for audit or evaluation of federal- and state-supported programs, or for enforcement of or compliance with federal legal requirements which relate to those programs:
     - **(1)** The Comptroller General of the United States.
     - **(2)** The Secretary of the Department of Education.
     - **(3)** State educational authorities.
   - **b.** State and local officials to whom disclosure is specifically required by State statute adopted prior to November 19, 1974.
   - **c.** Veterans Administration officials (not covered by FERPA but specified under Title 38, Section 1790 (c), United States Code).
   - **d.** Other school officials determined by the institution to have a legitimate educational interest.
   - **e.** Officials of other institutions in which a student seeks or intends to enroll on the condition that Lake Land College makes a reasonable attempt to inform the student of the disclosure unless the student initiates the transfer.
   - **f.** Persons or organizations providing financial aid to students, or determining financial aid decisions concerning eligibility, amount, condition, and enforcement of terms of said aid.
   - **g.** Organizations conducting studies for, on or behalf of, educational agencies or institutions to develop, validate, and administer predictive tests, to administer student aid programs, or to improve instruction. Those organizations may not disclose personally identifiable information on students, and information secured must be destroyed when no longer needed for their projects.
   - **h.** Accrediting organizations carrying out their accrediting functions.
   - **i.** Parents of a student who have established that student's status as a dependent according to Internal Revenue Code of 1954, Section 152.
   - **j.** Persons in compliance with a judicial order or a lawfully issued subpoena, provided that Lake Land College makes a reasonable attempt to notify the student in advance of compliance.
   - **k.** Persons in an emergency, if the knowledge of information, in fact, is necessary to protect the health or safety of students or other persons.
   - **l.** An alleged victim of any crime of violence (as that term is defined in 18 U.S.C. 16) of the results of any institutional disciplinary proceeding against the alleged perpetrator of that crime with respect to that crime.
2. Lake Land College makes public certain "directory information" about students. It is the intention of the college to do so, within the scope of regular college policies and as may be appropriate to the normal course of college business and operations. The following information is regarded to be "directory" type information, and some or all of it may be made public: student name, address, and telephone listing, email address, enrollment status (full- or half-time), student classification, major field, participation in officially recognized activities and sports, weight and height of members of athletic teams, age and/or date of birth, dates of attendance, degrees and awards received, most recent previous school attended, and photograph.

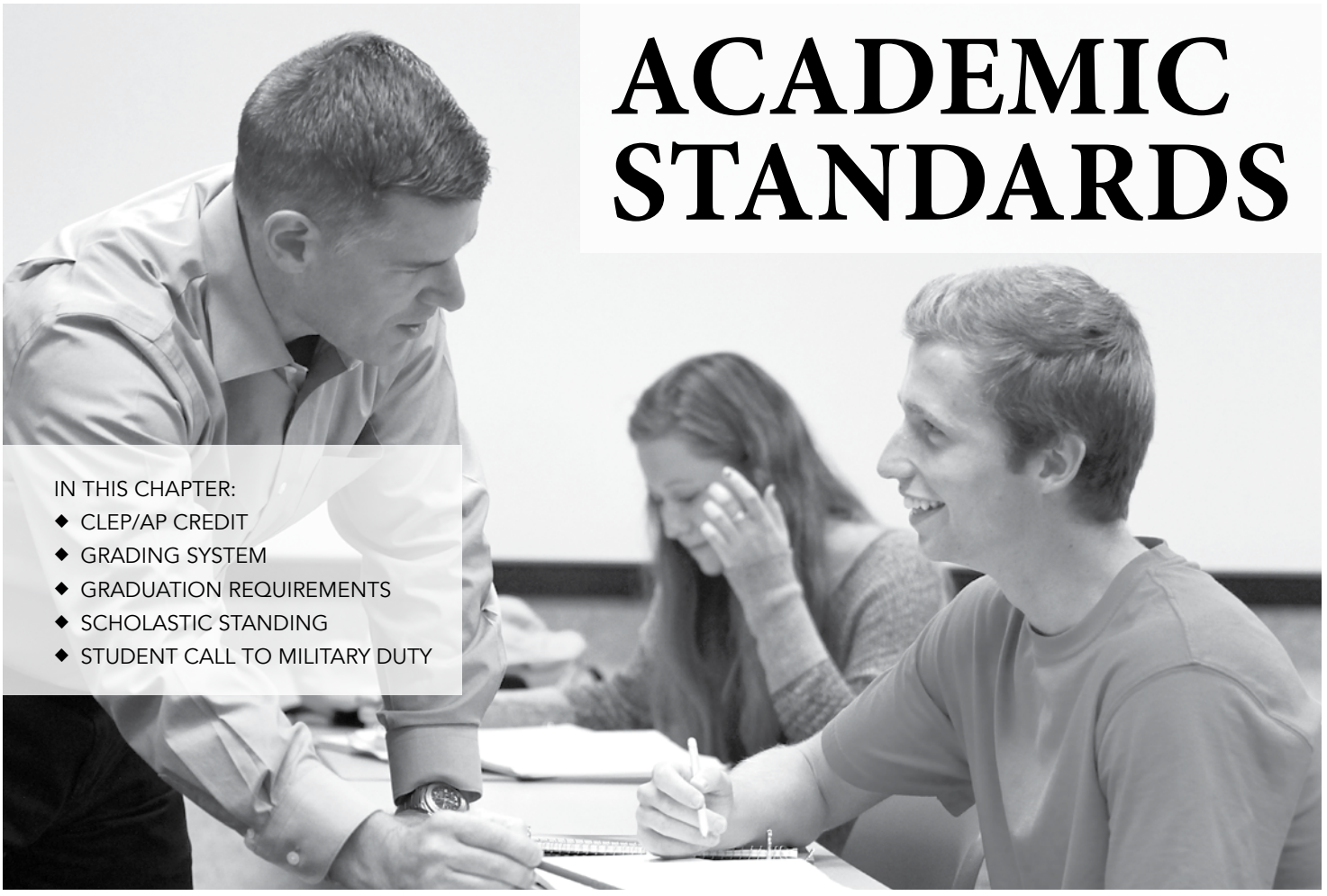
Any student objecting to his or her directory information being made public must file notice in writing of such objections with Admissions & Records.

POLICIES, PROCEDURES AND PROGRAMS

Some programs and courses in the Lake Land College Catalog were in the final approval process at the time of catalog publication. Minor changes may occur. Advisors and counselors will have the final information on all programs. Occasionally it is necessary to change policies, procedures and programs after the printing of the Lake Land College Catalog. As a result, policies, procedures and programs as indicated in this catalog may change without notice.


PAULO COELHO

ACADEMIC STANDARDS



IN THIS CHAPTER:

- CLEP/AP CREDIT
- GRADING SYSTEM
- GRADUATION REQUIREMENTS
- SCHOLASTIC STANDING
- STUDENT CALL TO MILITARY DUTY

STUDENT CLASSIFICATION

Students are classified as follows:

1. **DEGREE-SEEKING STUDENTS**
   Degree-seeking students are those students who are seeking a Lake Land College degree or certificate of 24 or more credit hours.
2. **NON-DEGREE-SEEKING STUDENTS**
   Students enrolled in courses at Lake Land College who are not pursuing a degree or certificate of 24 or more credit hours are considered to be non-degree-seeking students.
3. **RE-ADMIT STUDENTS**
   Re-admit students are those students who have interrupted their continued enrollment for at least one full year.
4. **CONTINUING STUDENTS**
   Continuing students are students who have a continuous enrollment status from the first day of their initial enrollment until they cease enrollment for a semester, excluding summer.
5. **NON-CREDIT STUDENTS**
   Those students enrolled only in special interest non-credit courses which do not apply towards a degree or certificate program are classified as non-credit students.
6. **NEW STUDENTS**
   New students are first-time enrollees at Lake Land College who have not enrolled in a degree or certificate program at any other institution of higher education.
7. **TRANSFER STUDENTS**
   Transfer students are those who have taken course work at any other institution of higher education.
8. **FRESHMEN**
   Freshmen are students who have earned 28 college credits or less.
9. **SOPHOMORES**
   Sophomores are students who have earned 29 college credits.
10. **FULL-TIME STUDENTS**
    Full-time students are students who are carrying 12 or more credits. In the summer, they are students who are carrying six or more credits.
11. **PART-TIME STUDENTS**
    Part-time students are students who are enrolled for fewer than 12 credits. In the summer, they are students enrolled for fewer than six credits.

STUDENT CALL TO MILITARY DUTY

Lake Land College students called to active duty in the armed forces will, upon their request, be given a 100 percent refund of tuition and fees for the current term if they provide Admissions & Records with ***1)*** a written request to be dropped from classes at 100 percent refund and ***2)*** a copy of their official orders for a call to active duty. If the call to active duty comes after mid-term, the student may ***1)*** request to be withdrawn from classes at 100 percent refund, ***2)*** try to complete courses in progress after consulting with the instructors, or ***3)*** request incomplete grades ("I") after consulting with the instructors.

ACADEMIC HONORS

Each semester (excluding summer term), academic honors are awarded to students who have completed 12 credit hours of courses at the .040 level or above that count in the grade point average with a semester GPA as follows: Honor's List, 3.50 – 3.64 GPA; Dean's List (high honors), 3.65 – 3.79 GPA; and President's List (highest honors), 3.80 – 4.00 GPA.

Academic honors for part-time students are awarded to students who complete 6 to 11 credit hours per semester (excluding summer term) with a semester grade point average (GPA) as follows: Honor's List, 3.50 – 3.64 GPA; Dean's List (high honors), 3.65 – 3.79 GPA; and President's List (highest honors), 3.80 – 4.00 GPA.

STUDENT WITHDRAWALS FROM COURSES

It is beneficial for students to seek advice from the instructor and/or counselor when considering withdrawal from a course. Students can withdraw from courses in one of the following ways: ***1)*** Use the Internet Registration and Information System (IRIS). Students may not use IRIS to withdraw from courses if they have a block on their records. ***2)*** Submit a change of schedule form to Admissions & Records on campus or at the Kluthe Center. ***3)*** Call Admissions & Records or the Kluthe Center to inform them of their intentions. The official date of withdrawal will be the date the form or phone call is received in Admissions & Records or the Kluthe Center.

For classes meeting eight weeks or longer, students can withdraw prior to four instructional days before the first day of the final examination period and receive a "W" on their academic transcript. For classes meeting less than eight weeks in length, students may withdraw prior to the date of the last class session and receive a grade of "W" on their academic transcript. Students who do not officially withdraw may receive an "F" grade on their transcript. Once students take the final exam, they cannot withdraw from that class.

It is important to consider the following when withdrawing from a course:

1. The refund policy. **No refund will be authorized for withdrawals or changes made after the refund period.**
2. Financial aid implications. Students may lose both current financial aid (grant/loan) and future financial aid eligibility if they withdraw and may be held responsible for full payment of tuition and fees. Contact Financial Aid for more information.

INSTRUCTOR WITHDRAWALS FROM COURSES

An instructor may withdraw a student from class if the number of absences is detrimental to the student's ability to meet the course objectives.

TO OBTAIN AN INCOMPLETE FOR A COURSE

If a student is unable to complete the requirements for a course during the allotted time period due to illness or other extreme circumstances, the student may request the instructor to assign a grade of "I" (Incomplete).

To receive this grade the student must have been maintaining a passing grade at the time the illness or extreme circumstance started, the instructor must agree that this is an appropriate grade in the specific circumstance, and the student and the instructor must complete a Request to Obtain an Incomplete form.

During the next regular term, excluding summer, the student will be given the opportunity to complete the requirements for the course. After the requirements have or have not been completed, the instructor will determine the grade the student earned (A,B,C,D,F, or P) and report it to Admissions & Records by the mid-term date for that term. Any "I" grade remaining after the mid-term date will automatically be changed to an "F" grade. Students affected by this procedure should refer to the grade appeal section of the catalog.

GRADUATION WITH HONORS

In computing the final grade point average for graduation with honors, only courses and grades earned at Lake Land College will be used. *The final range of cumulative grade point average (GPA) to be awarded graduation honors are as follows:* cum laude, 3.50 – 3.64 GPA; magna cum laude, 3.65 – 3.79 GPA; and summa cum laude, 3.80 – 4.00 GPA.

Only those students completing degree requirements or a certificate program of 24 hours or more can be designated as graduating with honors. The grade exclusion policy will not affect the calculating of the final grade point average used to determine graduation with honors status.

Honors for spring candidates for degrees and certificates are tentative and are based upon their cumulative grade point average for courses taken at Lake Land College during the previous semesters. Summer candidates for graduation, although allowed to participate in the spring graduation ceremony, will not have an honors designation listed in the program.

At the time candidates are certified for graduation, a notation will be placed on their academic transcript and diploma indicating they graduated with honors.

ACADEMIC LOAD/MAXIMUM HOURS PER TERM

During the fall and spring semesters, no student may register for more than 20 semester hours without permission from the Vice President for Academic Services. During the summer term, no student may register for more than 10 semester hours without permission

ACADEMIC STANDARDS & REGULATIONS

GRADES

A student's course work will be evaluated according to the following system:

Grade	Performance	Grade Point Value
A	Superior	4
B	Good	3
C	Average	2
D	Poor	1
F	Failure	0
W	Withdrawal	0
U	Audit	0
I	Incomplete	0
P	Pass (is not used in averaging grades but does carry credit)	

Final grades are posted to each individual student's record at the end of the academic term in which the course was completed.

Students may access their grades online at lakelandcollege.edu. Admissions and Records does not mail grades. Students who do not have access to the Internet should call 217-234-5434 to request a copy of their grades.

FIGURING GRADE POINT AVERAGE (GPA)

A student's academic standing at the college is determined by his or her grade point average (GPA). Students can figure their GPA by dividing the total number of grade points earned by the total number of semester hours attempted. The semester grade point average represents the average of class grades for one semester. A cumulative grade point average represents the average of the grades of all courses a student has taken at Lake Land College only. Only grades for courses at the 040 level or above are used to compute grade point average.

from the Vice President for Academic Services.

Contact 217-234-5427 or overload@lakelandcollege.edu for additional information.

GRADE APPEALS

Grade appeals must be initiated by the student no later than the end of the sixth week following the close of the semester for which the assigned grade was recorded. This request must be initiated with the instructor of the course, the Division Chair or the Vice President for Academic Services. The Vice President for Academic Services has the final approval of grade appeals.

GRADE EXCLUSION POLICY

Students are offered a once-only opportunity to improve their grade point average provided they meet the following conditions:

1. They must not have been enrolled in credit courses at Lake Land College for at least five consecutive calendar years from their last enrollment period.
2. Must have completed a minimum of 12 semester hours with a grade point average of 2.00 or better at Lake Land after the five year waiting period.
3. Only "F" grades that were earned in a single semester or term of enrollment will be excluded.
4. The Grade Exclusion Policy cannot be applied before the minimum credits, waiting period and grade point average are earned.

Students planning to transfer to another institution are cautioned that the receiving university may use all grades earned in excluded courses for computation of grade point average for admission or other purposes. Eligible students should see a counselor or academic advisor to begin the process. Forms can be obtained from Admissions & Records.

REMAINING IN GOOD ACADEMIC STANDING

GOOD ACADEMIC STANDING

Lake Land College interprets a cumulative "C" average (A=4.0, B=3.0, C=2.0, D=1.0) as the minimum acceptable standard of scholarship for graduation. Students will be notified of their academic standing on their grade reports each term. *Minimum acceptable standards in terms of grade point average (GPA) to remain in "good academic standing" are as follows:*

12–20 hrs. 1.5 GPA	**21–29 hrs.** 1.6 GPA	**30–38 hrs.** 1.7 GPA
39–47 hrs. 1.8 GPA	**48–55 hrs.** 1.9 GPA	**56+ hrs.** 2.0 GPA

GOOD ACADEMIC STANDING – WARNING

1. Any student with a cumulative grade point average (GPA) high enough to be in good academic standing but less than 2.0 will be placed on good academic standing – warning status.
2. While on good academic standing- warning status, students:
   a. Are encouraged to meet with an academic counselor before registration.
   b. Must enroll in Strategies for Success (SFS 101).

ACADEMIC PROBATION

1. Any student whose cumulative grade point average falls below the minimum acceptable standards to remain in "good academic standing" after 12 semester hours will be placed on academic probation.
2. While on probation, students may continue to enroll in the college, however, they:
   a. Must meet with an academic counselor before registration.

b. Must enroll in no more than 14 semester hours maximum during the fall and spring semesters and no more than 6 semester hours during the summer term.

c. Must enroll in Strategies for Success SFS 101.

d. Can be required to take developmental reading courses or tutoring in specific areas, upon the recommendation of counseling and reading professionals.

e. Must earn a 2.00 semester grade point average or a cumulative grade point average at or above the minimum acceptable standard for the number of semester hours attempted.

3. A student is removed from probationary status and considered in "good academic standing" when the cumulative grade point average is at or above the minimum acceptable standard for the number of semester hours attempted.

ACADEMIC SUSPENSION

1. Any student on academic probation who attempts one or more college credit courses at the 040 course level or above and fails to achieve a 2.00 semester grade point average or a cumulative grade point average at or above the minimum acceptable standard will be academically suspended from the college.

2. The suspension will be for the full term following the term of current enrollment. Readmittance to the college will be automatic for students who have been suspended.

3. No student may enroll in any college credit courses during the suspension period; however, with consent of a counselor, the student may enroll in courses below the 040 course level (developmental and general studies), Reading and Study Skills I RDG 050, and Strategies for Success SFS 101, 102, or 103.

4. Students returning from academic suspension will be placed on academic probation status and will be required to successfully complete (obtain a passing grade in) Strategies for Success SFS 101. Students may also be required to complete developmental reading courses or tutoring in specific areas.

ACADEMIC DISMISSAL

1. Any student, previously suspended, who re-enters the college and while on probation, does not earn a minimum 2.00 semester grade point average or a cumulative grade point average at or above the minimum acceptable standard for the number of semester hours attempted will be dismissed for not less than one calendar year.

2. After the one year dismissal period, a student must petition the Academic Standards Committee for readmission. The petition for readmission must be submitted at least three weeks prior to the beginning of the term the student wishes to enroll.

3. Any student readmitted by the Academic Standards Committee will be notified in writing of the specific terms of readmission.

4. Students returning from academic dismissal will be placed on academic probation status and will be required to successfully complete (obtain a passing grade in) SFS 101 Strategies for Success. Students may also be required to complete developmental reading courses or tutoring in specific areas.

5. Any student who reenters the college after academic dismissal and does not meet the conditions required by the Academic Standards Committee may be permanently dismissed from the college.

ADDING COURSES

Students may add courses to their schedule through the first two instructional days of the semester or module. Classes less than a module in length must be added prior to the first day. Students may add an evening class prior to the second class meeting. In order to add a course, degree-seeking students may either use IRIS or submit a completed Change of Schedule form to Admissions & Records or at the Kluthe Center. Off campus students may contact the local extension center coordinator. Non-degree seeking students may call Admissions & Records staff to add classes.

DROPPING COURSES

Students may drop a course with no notation on their academic transcript and not be required to pay for the course (or receive a refund) during specific time periods dependent upon the length of the course.

- Courses meeting 12 weeks or longer must be dropped no later than 10 instructional days after the beginning of the semester.
- Courses meeting 8–11 weeks must be dropped no later than 5 instructional days after the beginning of the semester/module.
- Courses meeting 3–7 weeks must be dropped no later than the first instructional day of the course.
- Courses meeting less than 3 weeks must be dropped prior to the first instructional day of the course.

Students may be administratively dropped from courses if they do not meet the required pre-requisites.

In order to drop a course with no record, students must either use the Internet Registration and Information System (IRIS) or submit a completed Change of Schedule form to Admissions & Records to inform them of their intentions. It is the student's responsibility to drop courses according to policy and to secure proper documentation.

CHANGE OF PROGRAM OF STUDY

Unless informed otherwise, students are assigned the program of study/major they indicate on their Intent to Enroll. If a student wants to change his or her major and has not enrolled yet, then the student should contact Admissions & Records. If already enrolled, the student should complete a "Change Major" form online through their Laker Hub.

AUDIT A COURSE

To audit a course, the student must pay the same tuition and fees as if the course were being taken for credit. The student must declare the intention to audit the course in writing on the proper form with Admissions & Records during the registration period for the course. The form is available online at lakelandcollege.edu.

REPEATING COURSES

Courses in which the content varies from semester to semester or in which a student is expected to gain increased knowledge and skill through repetition are designated as repeatable. These courses, and the maximum number of times each can be repeated, are noted in the course description section of the college catalog. When students repeat courses designated as repeatable, all credit hours and grades are computed in the hours earned and cumulative grade point average.

A student who earns a grade of F in a repeatable course and subsequently repeats it and earns a passing grade may request to have only the last credit hours and grade earned computed in the students' cumulative grade point average.

Students may repeat other courses that are not designated as repeatable with the understanding that only the last credit hours and grades earned will be computed in the students' grade point average.

Admissions & Records must be notified by the student in writing on the proper form of a repeated course to insure the repeat is noted on the transcript.

Students should be aware that repeating courses may impact their financial aid. Because repeat course policies vary from college to college, students planning to transfer are encouraged to familiarize themselves with the policy of the college they will attend.

IMPORTANCE OF ATTENDING CLASS

Because regular, punctual classroom attendance is considered important for quality performance and success, students are expected to punctually attend all meetings of classes in which they are enrolled. Instructors and/or division chairpersons have the prerogative to determine minimum requirements; oftentimes these requirements are determined by accrediting and credential-granting agencies. Instructors also have the prerogative of lowering grades for unexcused absences. Because the Illinois Community College Board requires instructors to certify the attendance of students at mid-term, an instructor may withdraw a student from class if the number of absences is detrimental to his/her ability to meet the course objectives. In case of prolonged absence because of illness, accident, or hospitalization, students must notify the College Health Services so that proper notification can be made to instructors. Student absences for the purpose of attending regular national guard or military reserve unit activities, volunteer emergency worker duty, and jury duty will be considered excused absences upon submission of appropriate documentation to the course instructor.

Lake Land College will reasonably accommodate student absences for religious observances in accordance with the University Religious Observations Act (110 ILCS 110/1 and 110/1.5) in regards to admissions, class attendance and the scheduling of examinations and work requirements. Students faced with schedule conflicts related to religious observances should make prior arrangements with instructors at least ten (10) calendar days in advance of the examination or other activity involved. A student who believes that he or she has been unreasonably denied an educational benefit due to his or her religious beliefs or practices may appeal the decision in accordance with the college's Student Concerns and Grievances Procedures.

CLASS ATTENDANCE AND COLLEGE-SPONSORED ACTIVITIES AND EVENTS

College-sponsored student activities and events should not conflict with regularly scheduled classes unless necessary. Staff planning student activities and events during regularly scheduled class times must submit a request to the appropriate Vice President for prior approval. Once approved, the staff member supervising the activity will provide notification to instructors and include the names of the students who will participate. When activities are rescheduled due to weather or other unforeseeable conditions, the staff member will notify the instructors as soon as possible after the schedule change is made.

Participation in approved college-sponsored student activities and events will be considered excused absences and students will be allowed to complete work according to the following:

1. The student will contact the instructor at least one week prior to the absence. When activities are rescheduled due to weather or other unforeseeable conditions, the student will contact the instructor as soon as possible after the schedule change is made.
2. The student should request from the instructor the work to be made up and complete what can be completed prior to the absence. Examinations and other assignments that cannot be completed prior to the absence will be made up at a time mutually agreed upon by the student and the instructor.
3. If needed, an instructor can make an alternative assignment for the make up work.
4. If a student fails to notify the instructor prior to the absence or does not complete the assignment as mutually agreed upon, the student will not be allowed to make up the work.

FINAL EXAMINATIONS

Rescheduling of final exams is not permitted except with permission of the Vice President for Academic Services and with the consent of the instructor.

The schedule can be found at lakelandcollege.edu.

CREDIT BY PROFICIENCY EXAMINATION

If reasonable evidence exists that a student possesses college-level academic proficiency in a subject area, the student may request to take a proficiency examination. Students may earn credit for college courses based on proficiency examinations and use that credit to meet requirements for an associate degree or certificate.

Proficiency examinations are limited to those courses recommended by the Division Chair and approved by the Vice President for Academic Services. Forms to begin the process are available in the Office of the Vice President for Academic Services.

A non-refundable evaluation fee equal to fifty percent (50%) of the current in-district tuition per credit hour is required for a proficiency examination and must be paid in advance. A grade will be given and the credit earned will be posted to the student's transcript. No official record is made of failures. Tuition and fees will not be assessed for credit earned by proficiency examination. Proficiency examinations are given with the following criteria:

1. Examinations are given for experience for which no prior college credit has been received.
2. The student must be admitted into the College and must not have previously audited or taken any course for which he/she is seeking credit.
3. The student will not be certified for academic credit in any course that he/she is not eligible to register for credit.
4. No proficiency examination will be given if the student is currently enrolled in the course past the official refund date.
5. Examinations will not be given if the student has received credit for advanced work in the subject area beyond the course in which the examination is requested.
6. Students may attempt a proficiency examination one time per course.

ADVANCED PLACEMENT

Lake Land College grants credit for courses taken by high school students who participate in the Advanced Placement Program. Credit is based on course examinations administered by the College Entrance Examination Board, and the following provisions apply:

1. Students must have scores sent directly to Lake Land College Admissions and Records. (Scores from other college transcripts cannot be used.)
2. All scores will be individually evaluated to determine specific course credit and the amount of credit to be awarded (See below.)
3. Credit will be granted without a grade, but it may be used to fulfill graduation requirements.
4. Credit will not be used to calculate grade point averages.
5. No tuition or fees are charged for Advancement Placement credit.
6. Students should be aware that Advanced Placement credit may not be accepted by another college or university.

AP TEST TITLE	COURSE/CREDIT HOURS GRANTED	MINIMUM SCORE
Spanish Language & Literature	FLG 140 and FLG 141 (6 hrs)	3
French Language & Literature	FLG 130 and FLG 131 (6 hrs)	3
English Language & Composition	ENG 120 (3 hrs)	3
English Literature & Composition	LIT 130 (3 hrs)	3
Computer Science	CIS 156 (3 hrs)	3
Biology	BIO 100 (4 hrs)	3
Chemistry	CHM 150 (4 hrs)	3
Chemistry	CHM 150 and 151 (8 hrs)	5
Physics – Level B	PHY 130, 131 and 132 (8 hrs)	3
Physics – Level C Part 1	PHY 140 (4 hrs)	3
Physics – Level C Part 2	PHY 141 (4 hrs)	3
Calculus AB	MAT 241 (5 hrs)	3
Calculus BC	MAT 241 and MAT 242 (7 hrs)	3
Statistics	MAT 125 (3 hrs)	3
Economics	ECO 130 or ECO 231 (3 hrs)	3
United States History	HIS 155 or HIS 156 (3 hrs)	3
Political Science	POS 160 or POS 162 (3 hrs)	3
Psychology	PSY 271 (3 hrs)	3

CREDIT THROUGH THE CLEP EXAM

College credit is given for examinations taken through the College Level Examination Program (CLEP) of the College Entrance Examination Board (CEEB) if satisfactory scores are achieved.

The following provisions apply:

1. Students must have scores sent directly to the Lake Land College Admissions & Records. (Scores from other college transcripts cannot be used.)
2. All scores will be individually evaluated to determine specific course credit and the amount of credit to be awarded. Lake Land College accepts the American Council on Education (ACE) recommendations for credit-granting scores (see chart).
3. Credit will be granted without a grade, but it may be used to fulfill graduation requirements.
4. Credit will not be used to calculate grade point averages.
5. No tuition or fees are charged for CLEP credit.
6. Students should be aware that CLEP credits may not be accepted by another college or university.

Students interested in taking a CLEP test may obtain information from the Director of the Tutoring and Testing Center in Webb Hall, or by calling 217-234-5287.

CLEP TEST	MINIMUM SCORE	CREDIT GRANTED	EQUIVALENCE
College Algebra	50	3 hrs	MAT 130
Calculus	50	5 hrs	MAT 241
College Composition	50	3 hrs	ENG 120
Humanities	50	3 hrs	HUM 150
Social Sciences and History	50	3 hrs	Social Science elective
Financial Accounting	50	3 hrs	BUS 151
Principles of Management	50	3 hrs	BUS 251
Principles of Marketing	50	3 hrs	BUS 247
American Government	50	3 hrs	POS 160
History of the US I: Early Colonization to 1877	50	3 hrs	HIS 155
History of the US II: 1865 to Present	50	3 hrs	HIS 156
Human Growth and Development	50	3 hrs	PSY 279
Principles of Microeconomics	50	3 hrs	ECO 232
Principles of Macroeconomics	50	3 hrs	ECO 231
Introductory Psychology	50	3 hrs	PSY 271
Western Civilization I: Ancient Near East to 1648	50	3 hrs	HIS 250
Western Civilization II: 1648 to present	50	3 hrs	HIS 252
Introductory Sociology	50	3 hrs	SOC 280
Chemistry	50	4 hrs	CHM 120 or CHM 150
Biology	50	4 hrs	BIO 100
Introductory Business Law	50	3 hrs	BUS 200
Analyzing and Interpreting Literature	50	3 hrs	LIT 130
American Literature	50	3 hrs	LIT 251
English Literature	50	3 hrs	LIT 260
French Language Level 1	50	6 hrs	FLG 130 & 131
Spanish Language Level 1	50	6 hrs	FLG 140 & 141
Precalculus	50	5 hrs	MAT 140

LIFE EXPERIENCE CREDIT THROUGH PORTFOLIO DEVELOPMENT

Not all learning takes place in the classroom. Valuable college-level knowledge may be acquired through job experience and other life accomplishments. Students may earn credit for college courses based on life experience and may use that credit to meet requirements for an associate degree or certificate. Learning experience must parallel courses offered at Lake Land College and credits are applied based on requirements of each specific certificate or degree.

Credit is awarded based on completion of INS099 Portfolio Development and an evaluation of documentation of the learning experiences presented through the portfolio process. Students must demonstrate an acquisition of knowledge of the learning outcomes of the course to receive credit for life experiences. Tuition and fees will be charged for INS099 and a pass/fail grade will be assigned. A non-refundable evaluation fee equal to fifty percent (50%) of the current in-district tuition per credit hour will be required prior to formal evaluation of the portfolio. No tuition or fees are charged for credit earned through portfolio development and no grade is assigned. The credit will be posted to the student's transcript. No official record is made if no credit is granted for the portfolio. *Life experience credit is awarded with the following criteria:*

1. Life experience credit will be awarded for courses for which no prior college credit has been received.
2. The student must be admitted into the college and must not have previously audited or taken any course for which he/she is seeking credit.
3. The student will not be certified for academic credit in any course that he/she is not eligible to register for credit.
4. No life experience credit will be given if the student is currently enrolled in the course past the official refund date.
5. Life experience credit will not be given if the student has received credit for advanced work in the subject area beyond the course for which the credit is requested.
6. Students may attempt life experience credit one time per course.
7. Portfolios must be completed and submitted prior to the start of the semester in which the student plans to graduate.
8. Each portfolio will be individually evaluated and must meet all requirements to be awarded credit for a specific course(s). No partial course credit will be granted.

INDEPENDENT STUDY

Students may pursue supervised study for one-half to four semester hours of credit on an independent basis for academic work which reflects a reasonable and moderate extension of current Lake Land College courses. Students are permitted to enroll in Independent Study with permission of the instructor and approval by the Division Chair and the Vice President for Academic Services. See course description for INS 299 Independent Study.

TRANSFER TO OTHER COLLEGES OR UNIVERSITIES

Students intending to transfer to other colleges or universities are encouraged to plan their programs with a counselor to ensure compatible course selection.

The General Education Compact Agreement provides that any student who earns an associate degree in a baccalaureate-oriented program at Lake Land College shall enter the following senior colleges and universities with a junior standing, having fulfilled all lower division general education requirements of the senior institution:

- Chicago State University
- Eastern Illinois University
- Governors State University
- Illinois State University
- Northeastern Illinois University
- Northern Illinois University
- University of Illinois – Springfield
- Southern Illinois University – Carbondale and Edwardsville
- Western Illinois University

Baccalaureate programs include Associate in Arts (AA), and Associate in Science (AS).

Students who opt not to complete the A.A. or A.S. degree are advised to complete the Illinois Articulation Initiative General Education Core Curriculum. This option assures students that when they transfer to a senior institution they will have met all lower division general education requirements.

Students transferring without completing the Associate in Arts or Associate in Science degree and who have not completed the General Education Core Curriculum will have their transfer credits evaluated on a course by course basis. Also, these students will be required to meet the general education requirements of the institution to which they transfer.

TRANSCRIPT EVALUATION

An official evaluation of regionally accredited college and university transcripts, Lake Land College, and military credit, is available to students by filing a transcript evaluation form at Admissions & Records. The form is available online at lakelandcollege.edu. Student copies will not be evaluated. If an informal evaluation is done, the student assumes responsibility for course selection.

ASSESSMENT

Because of its commitment to continually improve the quality of educational experiences, Lake Land College uses information from and about students to improve instructional programs and general education. Outcomes Assessment is the process of measuring student performance and using the results to improve courses and programs. The process is integral to the college's affirmation of accreditation with the Higher Learning Commission's North Central Association. To ensure that adequate information is available, students will be asked to participate in personal interviews, to take program and/or general education assessments, or to complete surveys. More information

about Outcomes Assessment can be found online at lakelandcollege.edu under Academic Information.

DEGREES AND CERTIFICATES AWARDED

THE ASSOCIATE IN ARTS OR THE ASSOCIATE IN SCIENCE DEGREE will be awarded to those students who pursue a course of study leading to transfer to a four-year college or university. The requirements for these degrees are as rigorous as those at the four-year college or university and upon completion of the requirements students are admitted with junior standing to those colleges and universities that endorse the General Education Compact Agreement sponsored by the Illinois Board of Higher Education. Students select either the associate in arts or the associate in science degree based on their intended major and the requirements of their four year college or university.

THE ASSOCIATE IN ENGINEERING SCIENCE DEGREE will be awarded to those students who pursue a course of study leading to transfer to a four-year college or university with a major in engineering. Degree requirements differ significantly from the associate in arts and associate in science degrees so students need to follow precisely the curriculum model for the associate in engineering science degree. Students interested in pursuing a bachelor's degree in architectural or chemical engineering should consult a counselor before choosing the degree path to follow.

THE ASSOCIATE IN APPLIED SCIENCE DEGREE will be awarded to those students who meet the specific requirements based on occupations, semi-technical and technical curricula. Students pursue this degree in order to obtain training for immediate employment in business or industry.

THE ASSOCIATE IN LIBERAL STUDIES (ALS) DEGREE will be awarded to those students who complete a liberal course of study. The ALS degree provides a student with a unique opportunity to develop an individualized program that crosses traditional academic disciplines. This degree permits a student to develop a learning program that may be focused toward a career, personal interest, and enrichment or a combination of these objectives.

CERTIFICATES will be awarded to students who complete the prescribed program model as listed in the catalog. Certificate programs are occupationally oriented and vary from six credit hours to one year of study. Certificate programs requiring less than 16 credit hours are not eligible for federal Title IV financial aid or the Illinois Monetary Award Program grant.

GENERAL GRADUATION REQUIREMENTS

REQUIRED OF ALL STUDENTS IN DEGREE PROGRAMS

Students will be eligible for graduation when they have met all of the following requirements:

1. Met all college admissions requirements.
2. Fulfilled all general and specific requirements in one of the associate degree curriculums listed in the catalog. Associate in Science and Associate in Arts degree major requirements may vary from sample college transfer curriculum depending upon the students' selection of courses to meet four-year college requirements.
3. Accumulated a minimum of sixty-four 64 semester hours.
4. Accumulated a grade point average of 2.00 (C) in the general and specific requirements for the degree. Only courses at the .040 course level or above will count toward graduation.
   a. The final grade point average for graduation of students who have made a major career program change only includes those credit hours and grades of courses applicable to meet the requirements of the major.
   b. The final grade point average for graduation of transfer students does not include grades earned at other institutions for courses accepted toward graduation at Lake Land College. Advanced standing and transfer credit are granted for courses passed in accredited colleges and universities. The college defines accredited as the North Central Association or other regional accrediting agencies.
   c. Students enrolled in the Associate Degree in Nursing, Dental Hygiene and Physical Therapist Assistant programs are required to maintain final grades of "C" or better each semester in every required course in the curricula.
   d. Students enrolled in the John Deere Tech program must achieve a grade of "C" or higher in all JDA classes and TEC 048 to remain in and graduate from the program. Any student receiving less than a "C" in these classes will be required to withdraw from the program and repeat the class during the next scheduled offering prior to continuing in or graduating from the program.
5. Completed at Lake Land College at least 32 semester hours. Hours earned by proficiency examination and life experience credit do not count in the 32 hours. Credits transferred from other colleges are evaluated on a course-by-course basis.
6. Filed a Notice of Intent to Graduate with Admissions & Records by the posted date of the semester in which the student will meet academic graduation requirements.
7. A grade of "C" or better is required in Composition I and II (ENG 120 and ENG 121) to graduate with an Associate in Arts, Associate in Science or Associate in Engineering Science Degree.

REQUIREMENTS FOR MORE THAN ONE ASSOCIATE DEGREE

Students may earn more than one degree if they meet all general and specific curriculum requirements for each degree. However, students completing more than one degree according to catalog requirements in effect prior to Fall 2016, may not earn both an Associate in Science and an Associate in Arts degree.

It is important that students meet with their advisor or counselor to ensure appropriate course selection because not all courses are applicable to a degree, or intended for or accepted as transfer credit to senior institutions.

Students who seek more than one degree from Lake Land College are subject to published deadlines to file a Notice of Intent to Graduate form with Admissions & Records for each degree.

REQUIRED OF ALL STUDENTS IN CERTIFICATE PROGRAMS

Students will be eligible for graduation when they have met all of the following requirements:

1. Met all college admissions requirements.
2. Fulfilled all general and specific requirements in one of the certificate programs listed in the catalog.
3. Achieved a "C" (2.00) or received a grade of P (Pass) average in those courses applicable to meet the requirements of the certificates.
4. Completed at Lake Land College at least one-half of the total number of semester hours required for the certificate. Hours earned by proficiency examination and life experience credit do not count toward this one-half. Credits transferred from other colleges are evaluated on a course-by-course basis.
5. Filed a Notice of Intent to Graduate with Admissions & Records by the posted date of the semester in which the student will meet academic graduation requirements.

NOTE: A student who discontinues attendance for a full year or more will be subject to requirements in the current catalog at the time of registration. The student is responsible for proper registration each semester and for satisfying all graduation requirements.

GENERAL EDUCATION GOALS

The purpose of general education is to provide all students with learning experiences that are necessary to enable them to maintain responsible and satisfying relationships to society and the environment. *The General Education Committee with the approval of the Lake Land College faculty has adopted the following as specific goals of general education:*

- Communication
- Critical Thinking
- Problem Solving
- Diversity
- Citizenship
- Foundational Knowledge

IMPROVING HUMAN RELATIONS

It is the policy of Lake Land College to include in its General Education requirements course work on improving human relations. This policy includes improvement in understanding about race, ethnicity, gender, and diversity issues.

Each general education course will address the issues of race, ethnicity, gender, and other issues as they relate to racism and sexual harassment as a part of the discipline. Each discipline will, as a part of the course, develop course work which is appropriate to that area of study.

COLLEGE LIFE

IN THIS CHAPTER:

STUDENT LIFE

Student Life at Lake Land College is comprised of the Student Government Association, Student Activity Board, Student Publications, intercollegiate and intramural athletics, and clubs. The major funding source for Student Life comes from the Student Activity Fee.

STUDENT GOVERNMENT ASSOCIATION (SGA)

The SGA acts as the official voice of the student body to the college community. This is a popularly elected student organization that provides students with the opportunity to build leadership skills and serve the campus and community as a whole. The SGA provides criteria through which clubs and organizations are recognized by the Lake Land College Board of Trustees. Various events are hosted throughout the year including the High School Leadership Conference, Club Luncheon, Student Recognition Banquet, blood drives and other community service programs.

STUDENT ACTIVITY BOARD (SAB)

The primary function of the SAB is to provide social and cultural events for the college student body. On Wednesdays at 11 a.m., the SAB brings nationally touring comedians, musicians, hypnotists and more to campus. All events are free to students. Events are also held monthly at the Kluthe Center. The SAB allows students to develop creativity and teambuilding skills. SAB members are selected through an application and interview process.

THE NAVIGATOR NEWS

The college newspaper is designated a public forum and is a student-run publication. It functions under the direction of student editors, volunteer staff writers, cartoonists, photographers and advisor. The primary purposes of *The Navigator News* are: to inform students of institutional and local news; to provide students a forum for the sharing of ideas; to expose students to different points of view; to provide journalistic experiences for students; and to serve as a source of entertainment for students. The current issue of The Navigator News can be found at thenavigatornews.com.

STUDENT AMBASSADORS

The Student Ambassadors are a group of students who serve as official representatives of Lake Land College. The Ambassadors assist the college by informing prospective students of the opportunities available to them at Lake Land. In addition, they assist with several campus organizations and personnel with special school functions.

To become an Ambassador, students must meet the following criteria:

- be at least a half-time student for both fall and spring semesters
- maintain a 2.5 GPA
- complete an application
- complete an interview

Once students are selected, they attend training sessions and weekly meetings to learn more about the college. During the school year, the Ambassadors give tours of the campus, attend college/career fairs, visit high schools, and assist with special school functions. Interested students should contact Admissions & Records.

TEXTBOOKS

The Textbook Rental System is part of the Bookstore. Lake Land College is among the few colleges and universities across the United States that have a textbook rental system. It is estimated that students save an average of $1,400 a year using the textbook rental system. All students are required to pay the service fee (see How to Pay for College chapter of this catalog) which includes the purchase and management of textbooks for the textbook rental system.

Textbooks are issued by the bookstore, subject to the following:

1. Programs with special academic or student needs may require that textbooks be purchased by the student.
2. Consumable items will be purchased by the student.
3. All rented items must be returned to the college by the close of hours on the fifth college business day after the last day of final exams. Beginning on the sixth day, students will be charged new retail price of unreturned rentals.
4. Students will be charged new retail price for defaced or damaged books.
5. Students with unreturned textbooks will be restricted from receiving transcripts, restricted from renting textbooks and restricted from any further registration activity until all fines are paid.

STUDENT ID CARDS

Students other than those enrolled in the Dual Credit program or those enrolled in a Correctional Center program will be issued a Student ID. All student IDs are the property of Lake Land College and are provided for appropriate use for identification and access to services. A Student ID is required to rent books from the Bookstore. A student is required to carry the card when on the main campus, at the Kluthe Center, or at an extension center. The student should report a lost or stolen card to the Police Department within 48 hours.

A student is responsible for all transactions with the card until the card is reported missing to the Police Department. A fee will be charged to issue replacement cards. The Lake Land College Student ID is for the student's use only. It is not to be loaned to anyone. Student ID cards are issued both on campus and at the Kluthe Center.

PARKING

Parking is provided for all students in approved parking lots on campus without charge. Reserve parking is available for people with disabilities. Parking is monitored by Police Officers. Unauthorized parking is subject to a fine.

INTERNATIONAL STUDIES

STA 200

Community members can audit the STA 200 study abroad course that discusses cultural differences. STA 200 prepares students for an educational trip.

ATHLETICS

INTERCOLLEGIATE ATHLETICS

The program of intercollegiate athletics is dedicated to the belief that athletic competition complements the existing programs offered by Lake Land College. Athletics is an integral part of the total educational process, which fosters sound educational goals concurrent with those of the college. The college is a member of the National Junior College Athletic Association (NJCAA) and competes in Region XXIV. The NJCAA has a cohesive program for recognition of sports and athletes from two year colleges throughout the nation. Regional and national tournaments are held in all sports. Lake Land College, as a Division I and Division II, NJCAA College, awards athletic scholarships to talented student athletes.

The college program of intercollegiate athletics for men includes basketball and baseball. Women compete in volleyball, softball, and basketball on the intercollegiate level.

INTRAMURAL ATHLETICS

An intramural program, available to both men and women, includes: softball, basketball, volleyball, badminton, bowling and golf.

STUDENT ACTIVITIES

From comedians, musicians, hypnotists, and speakers to great giveaways, free meals and a spring carnival, the college provides students with a wide range of free entertainment and activities to enjoy on campus and at the Kluthe Center.

CLUBS

Several clubs are available for students to participate in such as: Agriculture Business & Production, Agriculture Transfer, Automotive Technology, BGLADD, Students With a Testimony, Broadcasting Club, Club IT, Collegiate Veterans Alliance, Common Corners, Construction Specification Institute, Cosmetology, Early Childhood Education & Family Services, Environmental Club, Future Educators of America Club, Future Electronics Technicians, Horticulture Club, Human Service Club, Industrial Technology Association, International Students Association, Math and Science, Nursing, Phi Theta Kappa, Physical Therapist Assistant, Post-Secondary Agricultural, Spanish Club, Students Creating Change, and Theater Club.

Information on the Student Government Association (SGA), Student Activity Board (SAB), Navigator, clubs and organizations can be obtained from Student Life, located in the Luther Student Center or from the website.

TEXT NOTIFICATIONS

Students can elect to receive a text message to notify them of class cancellations, emergency weather closings, emergency communication messages or general information/ deadline reminders. This option is available through the Laker Hub.

COLLEGE RADIO STATION WLKL

The Lake Land FM stereo station covers a 35- to 40- mile radius of campus. The station broadcasts alternative music, news, sports and weather 24 hours a day/seven days a week/365 days a year. WLKL is located at 89.9 on the FM dial, and can be heard online at 89.9themax.com.

LAKE LAND COLLEGE ALUMNI ASSOCIATION

The Lake Land College Alumni Association is open to anyone who has taken a class at Lake Land College. Membership is free and provides the alumnus with networking opportunities with other alumni as well a quarterly e-newsletter and an annual alumni magazine. We encourage alumni to remain active with their alma mater through various opportunities to serve on divisional advisory boards, mentoring and the Alumni Association Board of Directors. The association also sponsors the Alumni Association scholarship through the Lake Land College Foundation which is awarded to a family member of a college alumnus.

POLICE DEPARTMENT

Lake Land College's Police Department creates a very safe campus environment for students and faculty.

Police officers are on duty 24 hours a day, and provide a full range of law enforcement services to assist in providing students, faculty and staff with a safe and secure environment. The Police Department building is located on the far south end of the campus.

The Police Department provides many services for the Lake Land community including crime awareness programs, escorts, assistance with motorist emergencies, correction of safety hazards, and processing of lost and found items. For assistance, or questions concerning available services, contact the Police Department at 217-234-5432, or 217-234-5066. In case of an emergency, you may also call 911 from any phone, including pay phones without using coins.

The college's annual security report and other valuable information is located on the police department's web page.

HOUSING

Lake Land College does not maintain housing for students; however, housing is available adjacent to campus and in nearby communities. A listing of vacancies may be obtained from the classified advertising section in local newspapers and the college newspaper The Navigator. A listing of housing opportunities is also available on the college website. The college provides this information for convenience and assistance, but does not accept responsibility for the nature of the housing facilities. None of the facilities have been examined or approved by college personnel. Neither Lake Land College nor any of its agents or employees assume responsibility for any lease or rental agreements and cannot be held liable for nonpayment or damage.

LAKER POINT

Located in the Luther Student Center, Laker Point is the place for students and staff to go for a variety of breakfast, lunch, dinner and snack choices while enjoying the various student-friendly study and conversation areas. Students can relax, gather with friends, meet with study groups, etc. Computers are available for student use.

Catering for large or small events is available for anyone using Lake Land College facilities. This includes campus departments and organizations along with outside groups using the college's facilities. Anything from full catered meals to simple snack trays can be ordered from one of a variety of approved caterers. For a list of these caterers and a sample of their menu options, please contact the Director of Auxiliary Services at 217-234-5475.

THE HONORS EXPERIENCE

The Honors Experience is a three-tiered program designed by Lake Land College to provide honors students with an excellent academic experience. Honors students are encouraged to apply for the Presidential Scholarship, the Honors Program and Phi Theta Kappa. It is not required to be in all three options, but is highly recommended.

PRESIDENTIAL SCHOLARSHIP

Requirements:

- In-district high school senior
- Meet **one** of the following criteria:
  - Rank in the top 15 percent of your high school senior class; ***or***
  - Have an ACT composite score of 26 or higher.
- Submit Presidential Scholarship acceptance form.
- Maintain a 3.0 GPA the first semester or term and either a 3.15 GPA or a 3.15 cumulative GPA every semester or term thereafter.

Benefits:

The scholarship covers the full cost of tuition for up to two years.

THE HONORS PROGRAM

Requirements:

- Apply and be inducted into the Honors Program.
- Intend to graduate from Lake Land College with an associate degree.
- Freshmen applicants must have two letters of recommendation from high school instructors and have a composite ACT score of 25+ or a high school GPA of 3.5/4.0.
- Current student applicants must have one letter of recommendation from a Lake Land College instructor and maintain a 3.5/4.0 Lake Land College GPA after 12 credit hours completed.

Benefits:

- Any course has the potential to be honors level.
- Graduate with Associate Honors status (2 honors courses) or Full Honors status (4 honors courses) and receive the equivalent notation on a transcript.

PHI THETA KAPA

Requirements:

- Receive an invitation from a PTK advisor and then register online at ptk.org.
- Have 12 college credit hours completed at time of registration and intend to graduate from Lake Land College with an associate degree.
- Have a 3.5/4.0 Lake Land College GPA at time of registration and then maintain a 3.25/4.00.

Benefits:

- Nationally recognized professional honors collegiate organization, which is excellent for a résumé.
- With two or more semesters of local chapter membership members will receive a transcript and diploma notation.

For more information about the Honors Experience, contact honors@lakelandcollege.edu, call 217-234-5044 or view the website.

IN THIS CHAPTER:

- ADULT ED
- CBI
- CDL
- COMMUNITY LEARNING
- DUAL CREDIT
- EXTENSION CENTERS
- MSTL
- PARTNERSHIPS FOR COLLEGE AND CAREER SUCCESS
- PATHWAYS
- PERKINS
- POST A JOB OPENING
- PROJECT PAL
- TRIO DESTINATION COLLEGE
- WORKFORCE DEVELOPMENT

SERVING THE COMMUNITY & WORKFORCE

COMMERCIAL TRUCK DRIVER TRAINING

The Commercial Truck Driving training programs provides an opportunity for individuals of all experience levels to earn a CDL, refresh their driving skills and become safer drives.

Lake Land College offers Class A CDL courses for new drivers looking to obtain a CDL, Class B courses for vehicles under 36,001 pounds GVWR, and refresher courses for current and past CDL holders. The Commercial Truck Driving program works with several truck driving companies that will pre-hire students, allowing students to enter the workforce immediately.

Training is conducted at the Workforce Development Center, 305 Richmond Ave. East, Mattoon, Illinois or 224 S. Sixth Street, Marshall, Illinois. For more information about the program, job opportunities and payment options, contact the program coordinator at 1-800-789-1282 or 238-8239.

CENTER FOR BUSINESS & INDUSTRY

The Center for Business & Industry plays a leading role in providing customized employee training and development services to regional employers. The Center for Business & Industry maintains high standards for training program assessment, design, delivery and evaluation. An experienced staff and broad range of services ensure responsiveness to a variety of training needs. Training courses are available on a business site or at the Center for Business & Industry. These include:

- Comprehensive Leadership Development Programs
- Organizational and Workforce Development
- Continuous Process Improvement and Quality Systems
- Computer Software Applications
- Manufacturing Skills Training
- Commercial Drivers Licensing
- Consulting Services
- Meeting Room Rentals

The Center for Business & Industry is home to the region's only Manufacturing Skills Training Lab. The lab provides hands-on training for necessary skills in modern manufacturing operations; specific training is available for maintenance technicians, lead/technical operators, or those seeking to advance into these positions. The equipment is portable, offering companies the option of sending employees to the lab or hosting on-site training. Skill areas include: mechanical drive systems, electro-fluid power systems, electrical systems, electrical machines, motor controls, electro-fluid power, programmable logic control, robotic systems and quality assurance. Lake Land College is a designated training provider for Illinois Manufacturer's Association and Illinois Community College Board grants. Funding assistance may be available to qualifying companies. The Center for Business & Industry is located in the Workforce Development Center, 305 Richmond Ave. East, Mattoon. For more information call 217-235-1282.

POST A JOB OPENING

Career Services provides the CSM (Career Services Manager), an online system, to connect businesses with job seekers and students interested in internship opportunities. The CSM allows employers to post jobs and internships, search uploaded resumes, and register for job fairs – all free of charge. Career Services can also facilitate on-campus recruitment and interview opportunities. Connect with Career Services at 217-234-5288 or careerservices@lakelandcollege.edu.

COMMUNITY AND PROFESSIONAL PROGRAMS

Community and Professional Programs is a team dedicated to setting your vision in motion, with cost effective education. Visit lakelandcollege.edu/learn. Contact the Community and Professional Programs Coordinator at conted@lakelandcollege.edu or 217-234-5467.

CONTINUING PROFESSIONAL DEVELOPMENT

Lake Land College is licensed to provide continuing education units for accountants, massage therapists, dental hygienists/assistants, cosmetologists/estheticians/nail technicians, and nurses. Visit the website for a listing of seminars by topic area. Contact Professional Development at conted@lakelandcollege.edu or 217-234-5087.

COMMUNITY LEARNING

Lake Land College offers many special interest courses and trips that are not part of the regular academic degree programs. Anyone may enroll in these courses according to their own interests. These courses are offered in numerous areas including: health and wellness, computer skills, personal enrichment, engaging generations, finances and money, photography, recreation leisure and exercise, renewable energy, test preparation, creative arts and culinary and home.

Community Learning courses are identified by course title in the Lake Land College Magazine. These courses vary in length from one class meeting to several. Visit the website for listings or contact the Community and Professional Programs Coordinator at conted@lakelandcollege.edu or 217-234-5467.

SUMMER COLLEGE FOR YOUTH

Summer College for YOUth is a community education program for children birth to 17 years old. The program is designed to provide fresh subject matter, challenging ideas and a positive experience for children.

The subject areas vary each summer in the topics of arts and crafts, food and fun, discover and learn, musical notes, trips and tours, engaging generations, science adventures, sports and recreation and test preparation.

The classes usually meet in the morning or afternoon, Monday through Thursday, for varying weeks during the months of June, July and August.

Visit the website or contact the Community and Professional Programs Coordinator at conted@lakelandcollege.edu or 217-234-5467.

TRAFFIC SAFETY PROGRAM

Lake Land College Traffic Safety offers Defensive Driving Courses for individuals who have received a traffic citation in Effingham, Coles, Moultrie or Cumberland counties. This DDC-4 course is a four-hour course developed by the National Safety Council. It covers such topics as driving conditions, unsafe behaviors and aggressive driving. It is offered in Effingham, Sullivan, Charleston and Mattoon. There is also an online course that is available for an additional fee. If you have received a traffic citation in a county other than Effingham, Coles, Moultrie or Cumberland you may still be eligible to enroll.

The Lake Land College Traffic Safety Program also offers the Graduate to Safety Driver Remedial Education Course. Graduate to Safety is a five-hour driver remedial education course for drivers 16-21 years old who have had their license suspended by the Illinois Secretary of State. Participation is required as a condition of license reinstatement. The course is offered in Mattoon only on an as needed basis. Advanced registration is required and all fees are due at the time of registration. Registration will not be complete until payment has been received. Courses fill on a first come, first served basis and seating is limited.

Visit the website or contact Traffic Safety at trafficsafetyprogram@lakelandcollege.edu or 217-234-5467.

DISTANCE LEARNING

Distance Learning classes are taught on a two-way full motion interactive video and audio system. The classrooms are equipped with state of the art equipment, providing the instructor and students with the best sound and picture quality. In addition to instruction, the system can connect two or more sites for video meetings and staff development activities.

DUAL CREDIT PROGRAM

Dual Credit is a partnership between Lake Land College and district high schools that provides students the opportunity to earn college credit prior to high school graduation. Dual credit courses are offered in the convenience and comfort of the high school classroom during the regular high school day. Students do not pay tuition for dual credit courses, resulting in significant savings toward college expenses. High schools are charged a fee for dual credit courses and may require students to cover the cost of this fee. Students should check with the dual credit coordinator at the high school about dual credit fees.

Dual credit courses are reserved for high school students who are juniors or seniors, have obtained permission to enroll in college-level courses from their high school, and have a high school GPA of "C" or better. Students enroll in dual credit courses through the dual credit coordinator at their high school. Students enrolling in math or English courses are required to take a placement test or submit ACT scores to Lake Land College prior to the start of the class. A placement test study guide is available at lakelandcollege.edu/admissions. For more information about the Dual Credit program, call 217-234-5044, 217-234-5227 or visit the Dual Credit website.

PARTNERSHIPS FOR COLLEGE AND CAREER SUCCESS (PCCS)

Partnerships for College and Career Success is an educational initiative to prepare students for high skill, high wage careers which require technical skills. PCCS students get a head start on college through formal links between area high schools and Lake Land College. High school students may be eligible for waived college courses or preference admission in a competitive college program. Programs included in PCCS are: Associate Degree in Nursing, Dental Hygiene, Paramedic Services, Physical Therapist Assistant, and Practical Nursing. For more information contact your high school guidance counselor or the Office of the Associate Vice President of Instruction, 217-234-5228.

TRiO DESTINATION COLLEGE

The TRIO Destination College program identifies and assists individuals in targeted middle and high schools who have the potential to succeed in higher education and demonstrate a need for support. The program provides academic, career, and financial aid advisement to its participants to encourage them to graduate from high school and complete a higher education program of their choice.

Destination College annually serves 592 participants in the 6th to 12th grades of 16 area schools.

Destination College participants have the opportunity to take advantage of the following services:

- Career Exploration – research careers and career site trips.
- Study Skills – test taking strategies, time management and general study skills.
- Academic Tutoring – individual or group tutoring services.
- Parental Education – workshops and information provided to parents.
- Academic Advisement – guide students to completing high school course work in preparation for college admission.
- Pre-college Advisement and Application Assistance – benefits of a college education, college admission requirements, research college/university/vocational school options, assistance in completing college applications.
- College Visits – students travel to various postsecondary institutions in Illinois and surrounding states.
- Financial Literacy and Financial Aid Assistance – information on the financial aid process and scholarships, assistance completing the Free Application for Federal Student Aid (FAFSA), scholarship research.

Students who may benefit from TRIO Destination College, may contact the program for an application. Destination College is located at the Workforce Development Center, 305 Richmond Avenue East, Mattoon.

For more information, phone 217-234-5003, email: triots@lakelandcollege.edu.

PATHWAYS TO THE FUTURE

Pathways to the Future is an alternative education program offered by Lake Land College in cooperation with the Regional Office of Education #11 in Charleston and the Regional Office of Education #3 in Effingham. Pathways serves the student population of Lake Land College's district between the ages of 15 and 21 who have dropped out of school or are at risk of dropping out of school.

The program includes preparation for high school equivalency exams, high school transfer credit courses, job-seeking and job-keeping skills, self-esteem enhancement, computer familiarity, parenting skills and vocational skills. The goal for all students is high school completion through a diploma or high school equivalency.

Pathways has five sites located in Casey, Marshall, Mattoon, Effingham, and Shelbyville. There is no cost to the student.

For more information contact the Director of Adult and Alternative Education at the Workforce Development Center, 217-238-8383.

ADULT ED

Adult Education provides students with a variety of services including school equivalency (HSE) preparation classes, at no cost. Students age 17 and older, who are separated from a high school, may attend free HSE preparation classes at the Workforce Development Center in Mattoon, the Kluthe Center for Higher Education and Technology in Effingham, the Eastern Region Center in Marshall, the Western Region Center in Pana, as well as sites in Arthur, Paris and Shelbyville.

Many adult students find that earning a HSE diploma is the first step in preparation for returning to school or entering the job market. A HSE graduation ceremony, complete with caps and gowns, is also held each year. Adult Education also provides services through the SOS Literacy Grant to help Adult Learners attain basic skills. Adult Education also provides vocational classes in nursing, welding, computers and food sanitation throughout Lake Land's district.

For more information on the offerings of the Adult Education program, contact Adult Education at 217-238-8292 or adulteducation@lakelandcollege.edu.

PROJECT PAL (PARTNERS IN ADULT LITERACY)

Project PAL (Partners in Adult Literacy Program) is a volunteer-led adult literacy program which assists adults in the improvement of their reading and math skills through one-on-one tutoring. The program offers free tutoring in reading and math to Individuals, age 17 years and older, who are not currently enrolled in high school. Through assessment, individualized tutoring, and multiple resources, students will be able to achieve their goals of improved literacy skills. Services are offered at all Lake Land College extension centers. For more information, contact Project PAL at 217-238-8292.

EXTENSION CENTERS

Lake Land College's three extension centers allow students to take classes in their own communities.

EASTERN REGION CENTER AT THE FORSYTHE CENTER, MARSHALL

Located in Marshall, the Eastern Region Center at the Forsythe Center offers area residents a variety of general education, welding and technical career courses, as well as business and industry training.

The 8,000-square-foot facility hosts a spacious multipurpose vocational skills lab and classroom, two traditional classrooms, a computer lab and a computer resource area for the community. In addition, area high school dual credit automotive and small engines classes meet at the Center.

Located at 224 S. Sixth St., in Marshall, the facility is available for businesses and community organizations to use for meetings or training opportunities. For more information call 217-826-8490.

KLUTHE CENTER FOR HIGHER EDUCATION AND TECHNOLOGY, EFFINGHAM

Located in Effingham, the Kluthe Center for Higher Education and Technology serves more than 2,000 students each year. Students can choose from more than 100 general education, transfer, and career/technical courses that are offered during the day, evening and weekend. The Kluthe Center is one of the largest extension centers in the state and is located at 1204 Network Centre Blvd., off of I-57/70 and exit 162.

The two-story, 24,000-square-foot structure houses four full-time programs – practical nursing, associate degree in nursing, physical therapist assistant and massage therapy. Massage clinics are held weekly as part of the student training process. The Certified Nurse Assistant Program, and the 4-week truck driving school are available in the Effingham community.

Students may also complete several other certificates or degrees by taking classes only at the Kluthe Center or with a combination of online courses. The center has seven classrooms, a multi-media lab for distance education classes, a nursing lab, a physical therapist assistant/massage therapy lab, a science lab, a conference room, a student lounge, five computer labs, a resource room, and 15 offices.

Students can register for classes, meet with a counselor, complete assessment, use library resources and meet with a tutor at the Kluthe Center. Online proctoring and photo IDs are also available. GED, English as a Second Language, Pathways alternative high school courses are also offered at the Center.

The Community and Professional Programs offers Community Learning, College for YOUth, and Traffic Safety classes at the center. Classrooms and labs are also used for trainings and meetings by area businesses and community organizations.

The college Student Activity Board sponsors monthly events such as Welcome Day, student elections, mini health fair, Spring Carnival and chair massages at the Kluthe Center.

Office hours are 8 a.m. until 5 p.m. Monday through Friday. The center is also open evenings Monday through Thursday for online test proctoring. The Resource Room is located on the first floor and is equipped with eight computer stations which are available for public use during normal office hours. Summer hours vary.

For more information, call the Director of the Kluthe Center at 217-540-3555 or email kluthe@lakelandcollege.edu.

WESTERN REGION CENTER, PANA

The Western Region Center offers general education and technical courses to residents living on the western edge of the college district. Courses in basic nursing assisting, practical nursing, English, computers, history, literature and math, psychology and sociology are offered on a regular basis at the Center.

The more than 6,000-square-foot facility, located at 600 E. First St., Pana, shares space with the Pana Adult Education Center and houses six classrooms, a resource area, an administrative assistant's office, and an adjunct faculty office. One classroom is equipped as a computer lab, one is equipped as a nursing lab, one is a CNA classroom for the Adult Education Center, while the rest are larger traditional classrooms. Proctoring services for students taking on-line courses and photo IDs are also available.

A community resource area is available to residents who need access to a computer. Community organizations are welcome to use the Western Region Center for meetings or training opportunities.

For more information call 217-562-5000.

COURSE DESCRIPTIONS

COURSE NUMBERING SYSTEM

The following is a list of courses to be offered at Lake Land College. Courses are listed in alphabetic order by course prefix and catalog number. Departments or areas are listed in alphabetical order with the department or area number indicated in parenthesis. *Numbers represent the following courses:*

001 to 009	Developmental Courses
010 to 039	General Studies Courses
040 to 075	Freshman Vocational and Technical Courses
076 to 099	Sophomore Vocational and Technical Courses
100 to 199	Freshman College Transfer Courses
200 to 299	Sophomore College Transfer Courses

Any exceptions to the numbering system will be noted in the specific curriculum description and at the beginning of the course descriptions for that particular program.

Most courses below 040 do not qualify for Federal Title IV or Illinois Monetary Award (MAP). Contact the Financial Aid office for specific details.

Courses which could come under more than one program are placed in the highest-numbered category possible. Many technical courses are as rigorous as college transfer courses and cover material which parallels a college transfer course offered at four-year colleges and/or universities. It is anticipated that when students who have technical courses listed on their transcripts matriculate to a four-year college or university, personnel in that institution will check the course title and course description and allow the student college transfer credit for such courses if they are parallel. Lake Land College will furnish information regarding specific technical courses when and if needed to verify that the courses are parallel.

The number of semester hours credit is indicated for each course. Courses which require laboratory meetings have the number of class periods and number of laboratory periods indicated under the course title. The time schedule should be checked for the days and times when classes meet.

DEPARTMENTS OR AREAS OF STUDY

Courses are offered in the following departments or areas of study. Each department or area of study has been assigned a prefix.

Department/Area of Study	Prefixes
Adult Education – ABE/GED	AED
Agriculture	AGR
Allied Health	AHE
Anthropology	ANT
Art	ART
Associate Degree Nursing	ADN
Automotive Technology	AUT
Bio-science	BIO
Building Construction Technology	BCT
Business	BUS
Chemistry	CHM
Civil Engineering Technology	CET
Commercial Drivers License	CDL
Computer Aided Drafting	CAD
Computer Information Systems	CIS
Computer Integrated Manufacturing	CIM
Cosmetology	COS
Criminal Justice	CJS
Dental Hygiene	DHY
Early Childhood Education	ECE
Earth Science	ESC
Economics	ECO
Education	EDU
Educational Interpreting Program	EIL
Electronics Engineering Technology	EET
Emergency Medical Services	EMS/EMT
English	ENG
English As a Second Language	ESL
Esthetics	EST
Fire Science Technology	FST
Foreign Language	FLG
Geography	GEO
Geospatial Information Systems	GIS
Health Education	HED
Heating, Ventilation, A/C and Refrig. Technology	HVC
History	HIS
Horticulture	HRT
Human Services	HSP
Humanities	HUM
Independent Study	INS
Industrial Maintenance	IND
Information Literacy	LIB
Information Technology Training	ITT
Intensive English Language	IEL
John Deere Tech	JDA
Journalism	JOR
Law Enforcement	CJS
Literature	LIT
Machine Tool Technology	MTT
Manufacturing Maintenance	MMP
Massage Therapy	MAS
Mathematics	MAT
Mechanical Electrical Technology	MET
Medical Coding Specialist	MCS
Music	MUS
Philosophy	PHI
Physical Education	PED
Physics	PHY
Physical Therapist Assistant	PTA
Political Science	POS
Practical Nursing	PNC
Print Technology	PMT
Programmable Logic Controller	PLC
Psychology	PSY
Radio–TV Broadcasting	RTV
Reading	RDG
Recreation	REC
Service Learning	SLN
Social Science	SOS
Sociology	SOC
Strategies for Success	SFS
Study Abroad	STA
Speech–Theatre Arts	SPE
Technology	TEC
Telecommunications	TEL
Tutoring and Testing	TUT
Welding	WEL
Wind Technology	WND

COURSE FEES

Some courses require payment of a course fee. Course fee levels are listed below while specific course fee levels are listed with the course description.

Level 1 ◆ Fee $12

Applied to courses using limited equipment and/or supplies with equipment not rapidly becoming obsolete.

Level 2 ◆ Fee $24

Applied to most courses using computers or other highly specialized equipment in a rapidly changing technology and courses using large amounts of supplies.

Level 3 ◆ Fee $36

Applied to courses requiring very expensive equipment or very high usage of supplies.

Level 4 ◆ Fee $50 – $150

Applied to courses requiring very expensive equipment and very high usage of supplies, rental of facilities and equipment, great distances traveled to visit S.O.E. students, etc.

▼ Courses with this symbol are repeatable. **See page 199 for more information.**

ADULT BASIC EDUCATION (ABD---)

A complete list of Adult Education classes is available by calling 217-235-0361.

AGRICULTURE (AGR---)

AGR 014
Agriculture Update
Study of current agricultural trends and techniques in the areas of agronomy, agribusiness, animal science, and agricultural mechanization. (1 Credits, 1 Lecture)

AGR 019
Cert Crop Advisor Test Prep
This course is designed to prepare individuals to take the State and National Written Exams so they may be Certified Crop Advisor (CCA) Certified. (1.5 Credits, 1.5 Lecture)

AGR 040
Agricultural Mathematics
Applications of mathematics as it applies to the operation of grain and livestock farms, agriculture business and agriculture mechanization. (2.5 Credits, 2.5 Lecture)

AGR 041▼
Supervised Occupational Exp I
On the job experience as a full-time employee in selected agriculture occupation. Must be in curriculum that degree is awarded. (Repeatable 3 times) Course Level Fee 4 (3.5 Credits, 17.5 Lab/Lab-Discussion)

AGR 042▼
Supervised Ocupational Exp II
On the job experience as a full-time employee in selected agriculture occupation. Must be in curriculum that degree is awarded. (Repeatable 3 times) Course Level Fee 4 (2.5 Credits, 12.5 Lab/Lab-Discussion)

AGR 043▼
Supervised Occupational Experience III
On the job experience as a full-time employee in selected agriculture occupation. Must be in curriculum that degree is awarded. (Repeatable 3 times) Course Level Fee 4 (3 Credits, 15 Lab/Lab-Discussion)

AGR 044▼
Supervised Occupational Experience IV
On the job experience as a full-time employee in selected agriculture occupation. Must be in curriculum that degree is awarded. (Repeatable 3 times) Course Level Fee 4 (3.5 Credits, 17.5 Lab/Lab-Discussion)

AGR 046
Introduction to Agricultural Occupations
An introduction to the vast, complex business of agriculture, ways of doing business, guides for success of a person in the agricultural business of farm machinery technology, and familiarizes the student with the preparation for agricultural production, business, and mechanics jobs. (1 Credits, 1 Lecture)

AGR 049
OSHA/Ag Mach Safety
Provides an intensified study into agricultural machinery safety. Focuses on why agriculture machinery accidents happen, how they can be prevented, and how to create a safe working environment. Visual aids are utilized to display effect. (1 Credits, 1 Lecture)

AGR 050
Soils
Planned learning activities and experiences designed to cover soil development, functions of soil minerals, soil types, and their class. A major study of soil types in Illinois and Indiana and their conservation practices are included. Course Level Fee 2 (3.5 Credits, 3 Lecture, 1 Lab/Lab-Discussion)

AGR 051
Soil Fertility
Enables those involved with soils and crops to make intelligent and efficient use of fertilizer materials available.
(2.5 Credits, 2.5 Lecture)

AGR 052
Principles of Crop Production
Designed to develop needed skills involved in production of the major field crops in central Illinois and Indiana. Plant growth, crop choice, tillage, planting and sowing for maximum yields are emphasized. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

AGR 053
Integrated Pest Management
Designed to develop a working knowledge of agricultural chemicals as they are related to herbicides and insecticides. Students should have a working knowledge of calibration and maintenance of agricultural chemical equipment. Identification of major weed species in this area and their control is emphasized. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

AGR 054
Crop Harvesting/Drying/Storage
Fundamentals of harvesting, drying, and storage. Opportunities of various systems are explored through visitations at different sites and systems. Course Level Fee 1 (2.5 Credits, 2 Lecture, 1 Lab/Lab-Discussion)

AGR 060
Animal Husbandry
Prepares students with a basic understanding of livestock care, production and management from selection through breeding and marketing of beef and dairy cattle, swine and sheep. Emphasis is placed on confinement plans and new trends. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

AGR 061
Livestock Evaluation
Detailed study of beef cattle, dairy cattle, swine, sheep, and horse selection. This laboratory oriented course allows students to appraise livestock, viewing positive and negative selection points, and pays particular attention to judging. Course Level Fee 2 (3 Credits, 1 Lecture, 4 Lab/Lab-Discussion)

AGR 062
Advanced Livestock Evaluation
Provides an advanced study of beef, swine, and sheep selection. Both live animal and performance record analysis will be incorporated utilizing a combination of visual and genetic potential appraisal. Special emphasis will be placed on oral reasons. Course Level Fee 2 (3 Credits, 1 Lecture, 4 Lab/Lab-Discussion)

AGR 063
Animal Nutrition
Covers fundamental principles of livestock nutrition with an understanding of the mono-gastric and ruminant digestive system, essential nutrients, feed ingredients and additives, and balancing of rations. Private and commercial feed sales implications are included. (2.5 Credits, 2.5 Lecture)

AGR 064
Beef/Dairy Production Skills
Prepares students with the necessary skills required in modern cattle production, the different methods and tools used to perform these skills and a close inspection of handling facilities. Course Level Fee 1 (1.5 Credits, 1 Lecture, 1 Lab/Lab-Discussion)

AGR 065
A.I. Management – Cattle
Provides a basic understanding of reproductive physiology and trains individuals to artificially inseminate beef or dairy cattle. Explains and gives hands-on experience in actual insemination producers. Course Level Fee 4 (1.5 Credits, 1 Lecture, 1 Lab/Lab-Discussion)

AGR 066
Meat Science
Provides a basic understanding of meat classification and grading. Emphasis is placed on the live evaluation of beef, pork, and lamb. Following harvest the carcasses will be evaluated for consumer acceptability. Course Level Fee 2 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

AGR 070
Swine Production Skills
Prepares students with the necessary skills required in modern swine production, the different methods and tools used to perform these skills, understanding herd health, and looking at and making swine environmental decisions. Course Level Fee 1 (1.5 Credits, 1 Lecture, 1 Lab/Lab-Discussion)

AGR 071
Swine Reproduction and A.I.
Trains individuals to understand reproductive physiology, semen collection and artificial insemination. Course Level Fee 1 (1 Credits, 1 Lecture)

AGR 078
Equine Care and Management
A survey of issues for the horse owner addressing basic equine care and management including health, farrier science, nutrition, stable management, equine equipment, and buying, selling, riding and training horses. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

AGR 079
Equine Training Techniques
Prerequisite: Previous Riding Experience
Focuses on the psychology and physiology involved in training and riding. Study includes progressive training schedules, motivation and response to rider cues. The course examines various equine training techniques and exercises. Course Level Fee 2 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

AGR 080
Ignition & Electrical Systems
Designed to develop a working knowledge of the concepts and components of farm power and machinery electrical systems. Discusses basic electrical principles of electromagnetism and use of electrical test meters including the repair of ignition and charging systems. Course Level Fee 1 (3.5 Credits, 2 Lecture, 3 Lab/Lab-Discussion)

AGR 082
Advanced Electrical Systems
Prerequisite: AGR 080
Designed to increase knowledge in electrical systems. After completion of this course, students will be able to properly use service equipment to diagnose electronically controlled monitor systems and components on tractors and harvesting equipment. Course Level Fee 3 (3 Credits, 2 Lecture, 2 Lab/ Lab-Discussion)

AGR 083
Small Engines
Designed to develop a working knowledge of types of gas engines, systems in a gas engine, components of systems, principles of operations, care, maintenance, repair, and adjustment of gas engines. Course Level Fee 3 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

AGR 086
Adjusting New and Used Mach
Designed to teach the basic fundamentals of the operating principles and adjustments of combines and bailers. Course Level Fee 3 (2.5 Credits, 1.5 Lecture, 3 Lab/Lab-Discussion)

AGR 087
Diesel Fuel Systems
Prerequisite: AGR 083
Provide basic understanding of diesel engine fuel systems and operation. Students will learn diagnosis, removal of diesel pumps, and injector repair. Course Level Fee 3 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

AGR 088
Ag Trans & Power Trains
Covers standard and automatic transmissions, their gears and gear ratios, application and use, service requirements, and adjustments in farm power equipment and machinery units. Course Level Fee 3 (3.5 Credits, 2 Lecture, 3 Lab/Lab-Discussion)

AGR 089
Tractor Overhaul
Prerequisite: AGR 083
Designed to develop students' skills necessary to successfully overhaul a gas, liquid propane, or diesel farm equipment engine. Students will be able to accomplish disassembly and assembly procedures, measure parts for wear, engine overhaul, and tune-up and break-in procedures. Course Level Fee 3 (6 Credits, 3 Lecture, 6 Lab/Lab-Discussion)

AGR 090
Principles of Agri Mechanics
Covers the fundamentals of basic preventive maintenance for tractors and familiarizes the student with setting and adjusting sprayers, tillage equipment, planters, and combines. Course Level Fee 2 (2.5 Credits, 2 Lecture, 1 Lab/Lab-Discussion)

AGR 091
Hydraulics
Covers theory and principles involved in hydraulics and their application to the mechanization and maintenance of farm power machinery. Course Level Fee 3 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

AGR 092
Advanced Hydraulics
Prerequisite: AGR 091
Provides an in-depth study of hydraulics and its functions in mechanization. This course looks specifically at John Deere, Case-IH, Deutz-Allis, and Ford systems. Emphasis will be placed on theory of operation, diagnosis, and repair of machinery manufacturers' equipment. Course Level Fee 3 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

AGR 094
Ag Machinery Air Conditioning
Focuses on the theory of air conditioning, diagnosis of problems, and the safe handling of air conditioning material. Extensive hands-on is provided for diagnosis, service procedures, and agricultural air conditioning component repair. Equipment that will be covered will be two and four-wheel drive tractors, combines, and fertilizer applicator trucks. Course Level Fee 3 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

AGR 095
Agriculture Institute I
Designed for elementary and secondary teachers to provide for an essential background in the agriculture industries. The course focuses on the development of lesson plans to meet required learning standards and implementation within curricula. (2 Credits, 2 Lecture)

AGR 096
Agriculture Institute II
An extension of Ag Institute I, it is once again designed for elementary and secondary teachers. This course focuses intensively on the impact of agriculture industries and new technologies on society. Lesson plans and methods for delivering information will be discussed. Course Level Fee 1 (2 Credits, 2 Lecture)

AGR 097
Planting and Tillage Equipment
Covers the theory and principles of operation, set-up and adjustment, troubleshooting, and repair of major brands of planters, drills, field cultivators, and primary tillage equipment. Course Level Fee 1 (3 Credits, 1.5 Lecture, 3 Lab/Lab-Discussion)

AGR 098▼
Agriculture Institute III
An extension of Ag Institutes I & II this course focuses intensively on the impact of urban agriculture and its industries, agriculture communications, and alternative energy. Lesson plans and implementation within curricula will be discussed. (Repeatable 2 times) (2 Credits, 2 Lecture)

AGR 111
Intro to Agriculture Software
Use of computers in farm and agri-business management with emphasis on commercially available software for accounting, budgeting, record keeping and market analysis. Course Level Fee 2 (2 Credits, 2 Lecture)

AGR 112
Computer Applic/Agriculture
IAI AG 913
Covers the effective use of keyboard, manipulating agriculture files, using word processors, spreadsheets, database and presentation software, and discovering available agriculture software for accounting, budgeting, record keeping, and market analysis. Course Level Fee 2 (3 Credits, 3 Lecture)

AGR 120
Agriculture Economics
An introduction to basic economic concepts of the agricultural sector with emphasis on costs, revenue, price determination, supply and demand, and farm policy. (3 Credits, 3 Lecture)

AGR 121
Farm Business Records
An introduction into basic farm record keeping. Prepares students to compile records associated with specific farm enterprises. Record analysis is emphasized for farm efficiency measures. (2.5 Credits, 2.5 Lecture)

AGR 122
Farm Management
Economics principles applied directly to the organization and operation of midwest farms are discussed. Management effectiveness in cropping and livestock systems and resource utilization for maximum profit are stressed. (2.5 Credits, 2.5 Lecture)

AGR 123
Marketing of Ag Products
An introductory course covering farm marketing strategies, futures markets, cash markets for livestock and grain, and general problems in pricing major agricultural commodities. (2.5 Credits, 2.5 Lecture)

AGR 124
Farm Credit and Finance
An introduction to financing statements, capital and credit needs of farmers, sources of credit, and problems of borrowers and lenders. (2 Credits, 2 Lecture)

AGR 131
Agriculture Business Financing
Covers the use, sources, and methods of obtaining credit as it applies to farming and the farm supply business. (2 Credits, 2 Lecture)

AGR 132
Retailing/Agri Supplies
Covers the practical application of retailing as it affects farm business supplies by divisions merchandising, sales, promotion, personnel control and operation. (2 Credits, 2 Lecture)

AGR 133
Agriculture Salesmanship
Covers the basic principles underlying the sales process in agricultural farm supply and practical application and development of sales techniques. Basic to the course is an understanding of the salesperson's obligation to self, his or her company, and his or her customer. (2.5 Credits, 2.5 Lecture)

AGR 134
Business Analysis/Records
An analytical approach to financial statements and records of agricultural business, implications and decisions made on the basis of these records. (2 Credits, 2 Lecture)

AGR 141
Introduction to Agroecology
This course introduces ecological principles as they relate to agriculture, and includes sustainable food production systems and concepts of agroecology. Also emphasized is discussion of population ecology and plant demographics, as well as the conversion from conventional to alternative production. (3 Credits, 3 Lecture)

AGR 143
Organic Crop Production
Organic crop production will explore the history, production, harvesting, storage, and marketing of products. State and federal laws as they relate to organic crop production will also be discussed. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

AGR 145
Biological Pest Management
Biology of pest management will discuss the pest concerns of an organic production system. The discussion will include identification, prevention, and approved control measures within an organic system. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

AGR 151
GPS/Applications in Ag
This class is designed to provide students the opportunity to become familiar with global positioning systems as they relate to agriculture and develop a working knowledge of variable rate systems. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

AGR 152
Intensive Crop Scouting
Scouting skills are taught with emphasis on insects and plant diseases. Life cycles, prevention and control measures are discussed. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

AGR 174▼
Agriculture Institute IV
An extension of Ag Institutes I, II, & III this course focuses intensively on renewable energy and the impact on agriculture and the growing energy needs of our society. Lesson plans and implementation within curricula will be discussed. (Repeatable 3 times) (2 Credits, 2 Lecture)

AGR 201
Intro/Agriculture Education
IAI AG 911
A general introduction into the various aspects and natures of the teaching profession. Opportunities and responsibilities are explored through individual work and site visitations. Evaluations are made to evaluate an individual's potential to teach. (3 Credits, 3 Lecture)

AGR 204
Prin/Field Crop Science
IAI AG 903
Designed to develop a working and scientific knowledge of modern crop production as a germination, growth, reproduction, tillage, and weed control of agricultural field crops. Emphasis is also placed on fertility, diseases and insects. Course Level Fee 2 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

AGR 205
Intro/Soil Science
IAI AG 904
Application of the basics in the physical, chemical, and biological aspects in soils. Soils of Illinois and Indiana are emphasized along with concepts of fertility, conservation, and field descriptions. Course Level Fee 2 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

AGR 206
Intro/Animal Science
IAI AG 902
Focuses on a study of beef, swine, sheep, poultry, and horses; and the scientific factors affecting nutrition, selection and genetics, products, environment, and physiology. Course Level Fee 2 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

AGR 207
Intro/Ag Economics
IAI AG 901
Principles of economics applied to problems in agriculture, marketing of agricultural products, agricultural policy, and the role of agriculture in the U.S. and world economies. (4 Credits, 4 Lecture)

AGR 208
Intro/Ag Mechanization
IAI AG 906
Study of problems and laboratory exercises pointing to present and potential engineering applications in agriculture are presented. Emphasis is placed on farm power and machinery, soil and water control, electricity, and structures. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

ALLIED HEALTH (AHE---)

AHE 040
Basic Nurse Assisting
This course is approved by the Illinois Department of Public Health (IDPH) to provide instruction in basic nursing skills in the classroom, laboratory and clinical settings. Students who successfully complete the course will be eligible to take the State of Illinois certified nursing assistant (CNA) examination. Course Level Fee 2 (8 Credits, 6 Lecture, 4 Lab/Lab-Discussion)

AHE 041
Medical Terminology
Focuses on basic vocabulary used in medicine, nursing and allied health occupations. (3 Credits, 3 Lecture)

AHE 042
Advanced Medical Terminology
Prerequisite: AHE 041 or consent of instructor
Builds and enlarges on basic medical vocabulary used in medicine, nursing and allied health occupations. (3 Credits, 3 Lecture)

AHE 043
Alzheimer's Disease – Upgrade
Prerequisite: Nurse Aide Certificate or consent of instructor
Prepares students for nurse assistant roles. Meets requirements for Illinois Department of Public Health for Alzheimer's Disease Time Requirements. (1 Credits, 1 Lecture)

AHE 044
Pathophysiology
This course provides basic concepts of both structural and functional changes caused by disease in tissues and organs as a basis for understanding clinical manifestations and principles of treatment. (3 Credits, 3 Lecture)

AHE 045▼
Professionalism in Health Care
This course provides students with the skills essential in developing and strengthening professional traits and behaviors. This course will advance students' understanding of professional, ethical, legal aspects as they apply in the health care setting. (Repeatable 1 time) (3 Credits, 3 Lecture)

AHE 047
Phlebotomy Techniques
This course prepares students for the role of a phlebotomist including all aspects of specimen collection and processing while maintaining high standards of professionalism. (4 Credits, 4 Lecture)

AHE 048
Phlebotomy Practicum
Prerequisite: AHE 047
This course provides intense clinical training in a patient care environment to achieve the skills required to become a competent and professional phlebotomist. Upon completion, student is eligible to take the PET (ASCP) certification exam. Course Level Fee 4 (2 Credits, 2 Lab/Lab-Discussion)

AHE 050▼
Physical Therapy Aide
This course will prepare a CNA to work under the supervision of a PT or PTA and assist them in the care of a patient in a rehabilitation/ physical therapy setting. (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

AHE 051▼
Health Science Careers
This course will explore in-depth, health career pathways, educational and aptitude requirements and occupational opportunities needed by health care workers. (Repeatable 1 time) (3 Credits, 3 Lecture)

AHE 052▼
Acute Care for the CNA
This course is for students who are currently listed on the IDPH Healthcare Worker Registry as a CNA. This course will prepare a student to work in a hospital based acute care setting. (Repeatable 1 time). (3 Credits, 1.5 Lecture, 3 Lab/Lab-Discussion)

AHE 054▼
Home Health Care
This course is for students who are currently listed on the IDPH Healthcare Worker Registry as a CNA. This course will provide students with the skills and knowledge needed for employment as a home health care aide. (Repeatable 1 time). (4 Credits, 4 Lecture)

AHE 055
Math for Meds
This course will prepare the student to perform drug calculations safely and accurately. Students will be introduced to identification and administration of oral and parenteral medications. (2 Credits, 2 Lecture)

AHE 086
Exploring Allied Health Careers
Designed for elementary and secondary teachers to provide information about the careers available in Allied Health. Will include information about new technologies in health careers. (3 Credits, 3 Lecture)

ANTHROPOLOGY (ANT---)

ANT 200
General Anthropology
IAI S1 900N
The course provides an introduction to cultural and physical anthropology. Human and animal behavior is studied by using the comparative method. Some of the topics covered are: religion, magic, kinship, sex roles, human evolution, race, archeology and primates. (3 Credits, 3 Lecture)

ART (ART---)

ART 100
Drawing I
Fundamental concepts and application of techniques of drawing, using a variety of media. Studies from nature and life-leading to an interpretative approach to understanding the visual environment. Course Level Fee 4 (3 Credits, 6 Lab/Lab-Discussion)

ART 105
Photography I
An introductory course that covers the basic principles and techniques of black and white photography including: equipment use, exposure control, film processing and printing, and the aesthetic concerns as a fine art medium. Course Level Fee 3 (3 Credits, 0 Lecture, 6 Lab/Lab-Discussion)

ART 110
2-D Design
A comprehensive study of the elements and principles of a two-dimensional design. Experience with a variety of materials and techniques. Course Level Fee 4 (3 Credits, 6 Lab/Lab-Discussion)

ART 111
3-D Design
A foundation studio course concerned with understanding how to manipulate basic elements and principles of design to develop visual images that exist in real space. A variety of experiences using different tools and media will be used to understand both the processes and products of 3-D design. Course Level Fee 4 (3 Credits, 6 Lab/Lab-Discussion)

ART 161
Printmaking I
Prerequisite: ART100 is required; ART 110 is recommended
Introductory Printmaking course covering various printmaking techniques, such as: Woodcut, Linocut, Etching, Monotype/ Monoprint, Collagraph and Silkscreen. Lectures and demonstrations will cover printmaking history and current trends. Competency in drawing and design required, in order to achieve concepts, compositions and craftsmanship. Course Level Fee 4 (3 Credits, 6 Lab/Lab-Discussion)

ART 165
Fundamentals of Art
A comprehensive overview of vocabulary and theories involving the elements and principles of design used in creating visual art with a studio experience geared to students pursuing a child care or elementary education degree.
Course Level Fee 4 (3 Credits, 1 Lecture, 4 Lab/Lab-Discussion)

ART 200
Drawing II
Prerequisite: ART 100
Continued study of concept and technique of drawing; emphasis on developing individual expression through a conceptual approach and drawing from life. Course Level Fee 4 (3 Credits, 6 Lab/Lab-Discussion)

ART 205
Painting
Prerequisite: ART 100
Introduction and application to opaque painting media; color mixing, canvas stretching and framing, composition, techniques, and styles of expression. Course Level Fee 4 (3 Credits, 6 Lab/Lab-Discussion)

ART 206
Painting II
Prerequisite: ART 205
This course is a continued study of conceptual and technical aspects of opaque painting media, canvas stretching and framing, composition and styles of expression. Emphasis will be on individual expression through abstracting from observation and utilizing painting as expressive communication. Course Level Fee 4 (3 Credits, 3 Lecture, 6 Lab/Lab-Discussion)

ART 225
Ceramics I
A studio art course which explores different methods of working with the media clay. The basic hand building methods of pinch, coil, slab and mold and an introduction to throwing pottery on the wheel will be covered as well as instruction on different methods of surface decoration. Developing good craftsmanship as well as creative inventiveness will also be explored. Course Level Fee 4 (3 Credits, 6 Lab/Lab-Discussion)

ART 240
Art and Gender
IAI F2 907 D
Prerequisite: ENG 120
This course will examine the expression of the visual arts through gender, history and culture. The study of art and gender is covered to better understand and define the intent and creation of art forms from ancient to contemporary culture. (3 Credits, 3 Lecture)

ART 250
Understanding Art
IAI F2 900
A survey of the visual arts from Ancient to contemporary times, an understanding the major cultural and historical relationships to the art forms. (3 Credits, 3 Lecture)

ART 260
Art History I
IAI F2 901
The primary focus of this course will involve an understanding of the historical developments of the visual arts (painting, sculpture, architecture) from Pre-historic through the Gothic period. Works of art will be examined as expressions of ideas, beliefs and practices of artists, cultures and societies. The relationship between the style, symbolism and function of art; the political, religious and philosophical ideas supporting them; and the ideals of the culture that produced them will also be explored. (3 Credits, 3 Lecture)

ART 261
Art History II
IAI F2902
The study of the historical development of art from Pre-Renaissance through the 21st Century. Beliefs and practices of cultures and societies will be examined. Style and symbolism combined with political, religious and philosophical traits will be explored through art. (3 Credits, 3 Lecture)

ASSOCIATE DEGREE NURSING (ADN---)

ADN 040
Nursing I
Prerequisite: Admission to the ADN Program
This course introduces the role of registered nurse as care provider and interprofessional healthcare team member. A concept-based approach introduces the novice student to knowledge, skills, and attitudes necessary to develop clinical judgment in providing care for diverse populations. Course Level Fee 4 (8 Credits, 5 Lecture, 9 Lab/Lab-Discussion)

ADN 042
Nursing II
Prerequisite: ADN 040
This course further develops the RN role. Nursing concepts are explored at a deeper level. Clinical experiences progress providing students the opportunity to apply knowledge, skills, and attitudes to make sound clinical judgments in providing care for diverse populations. Course Level Fee 4 (9 Credits, 6 Lecture, 8 Lab/Lab-Discussion)

ADN 051
Transition to ADN

Prerequisite: LPN license and Admission into the second level of ADN Program

This course is designed for LPN's transitioning into the associate degree (RN) program. Introduces the LPN to concept-based learning, the Simulation Learning System, care-mapping, and learning at the associate degree level. A skills review is included. Course Level Fee 4 (2 Credits, 1.5 Lecture, 0.5 Lab/Lab-Discussion)

ADN 053
Pharmacology I

Prerequisite: Currently enrolled in ADN 042

Utilizing a concept-based approach, this course introduces the nursing process and the clinical application of drug therapy in prevention and treatment of disease. (1 Credits, 1 Lecture)

ADN 060
Nursing Seminar

Prerequisite: ADN 076 or consent of instructor

This course prepares the student for the transition to the role of the graduate associate degree nurse. Employment issues, legal implications, continuing education, nursing management, and current issues in nursing are identified and discussed. (1 Credits, 1 Lecture)

ADN 061
Health Assessment

Prerequisite: BIO 225 and BIO 226

Enhances basic physical assessment skills needed in the healthcare setting. Body systems are examined individually. (2 Credits, 2 Lecture)

ADN 074
Pharmacology II

Prerequisite: Successful completion of Pharmacology I ADN 053

Prerequisite: Currently enrolled in ADN 076

Continuation of ADN 053. Building upon previous knowledge, the nursing process is utilized to apply pharmacology concepts for patients with increasingly complex health conditions. (1 Credits, 1 Lecture)

ADN 075
Pharmacology III

Prerequisite: Successful completion of Pharmacology II ADN 074

Prerequisite: Currently enrolled in ADN 078

Continuation of ADN 074. The nursing process is utilized to apply pharmacology concepts for patients in increasingly complex health conditions to prepare students for entry-level practice. (1 Credits, 1 Lecture)

ADN 076
Nursing III

Prerequisite: ADN 042

This course continues RN role development. Nursing concepts are emphasized as students engage in complex care situations in laboratory and clinical settings to promote knowledge, skills, and attitudes needed to make sound clinical judgments in providing care for diverse populations. Course Level Fee 4 (10 Credits, 6 Lecture, 1 Lab/Lab-Discussion)

ADN 078
Nursing IV

Prerequisite: ADN 076

This course advances RN role development. Synthesis of curricular concepts in the care of complex clients is the focus in the laboratory and clinical settings. Prioritization, delegation, and management are emphasized to prepare students for the nursing workforce. Course Level Fee 4 (10 Credits, 6 Lecture, 11 Lab/Lab-Discussion)

AUTOMOTIVE TECHNOLOGY (AUT---)

AUT 048
Intro to Automotive Technology

This course is a study of chemicals, shop safety and operations, tools and equipment, and careers in automotive technology. Techniques associated with electrical/electronics, heating and air conditioning, engine repair, brakes, steering and suspension, and engine performance will be discussed. Course Level Fee 3 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

AUT 049▼
Intro Med/Heavy Truck Maintenance

Prerequisite: AUT 048

This course is an introduction to medium and heavy duty truck repair. It will focus on safety, hand tools, and general knowledge on how to inspect and do basic maintenance services on trucks and trailers. Course Level Fee 2 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

AUT 050
Engine Repair

This course is a study of engine design, diagnosis, removal, cylinder head and valve train repair. Short block repair, lubricating systems, cooling systems will be discussed and hands on reassembly of the engine is included.

Course Level Fee 2 (5 Credits, 2 Lecture, 6 Lab/Lab-Discussion)

AUT 051
Electrical Systems I

This course is a study of the principles of electricity and electrical circuit design and diagnosing. Covers battery diagnosis and service. Starting Systems diagnosis and repair will be discussed. Course Level Fee 1 (4 Credits, 2 Lecture, 4 Lab/Lab-Discussion)

AUT 052
Engine Performance I

Prerequisite: AUT 051

This course is a study of ignition systems beginning with and building on basic ignition systems and culminating with computerized ignition systems. Course Level Fee 2 (5 Credits, 3 Lecture, 4 Lab/Lab-Discussion)

AUT 053
Brake Systems

Prerequisite: AUT 048 and AUT 051

This course is a study of the hydraulic principles of drum, disc, and ABS brake systems. Diagnosis and repair of power assisted, drum, disc, and antilock brake systems will be discussed. Course Level Fee 1 (4 Credits, 2 Lecture, 4 Lab/Lab-Discussion)

AUT 054
Heating and Air Conditioning I

Prerequisite: AUT 048 and AUT 051 or consent of instructor

A study of heating and air conditioning fundamentals as used on current automobiles, trucks and farm equipment. Practical experience will be provided in diagnosis, repair and service of various types of components. Course Level Fee 2 (3 Credits, 1 Lecture, 4 Lab/Lab-Discussion)

AUT 059
Electrical Systems II

Prerequisite: AUT 048 and AUT 051 or consent of instructor

This course is a study of diagnosis and repair of the charging and lighting systems. A discussion of accessories, including air bags, gauges, will also be covered. Course Level Fee 1 (4 Credits, 2 Lecture, 4 Lab/Lab-Discussion)

AUT 075
Supervised Occupational Experience

Prerequisite: Sophomore standing with at least one year in the automotive program

Designed to promote on the job experience in automotive technology and applying skills & knowledge learned in the program. The employers & supervising instructors work closely with the student in an off campus job site during the summer session. (Variable Credit 0.5/5 Credits, 15 Lab/Lab-Discussion)

AUT 076
Auto Transmissions/Transaxles

Prerequisite: AUT 048 or consent of the instructor

This course is a study of automatic transmissions/transaxles maintenance, diagnosis and adjustment. On board and off board hydraulic control operations and repair are discussed. Course Level Fee 2 (5 Credits, 2 Lecture, 6 Lab/Lab-Discussion)

AUT 080
Steering and Suspension

Prerequisite: AUT 048 and AUT 053 or consent of instructor

This course is a study of steering systems, front and rear suspension systems. It also covers basic wheel alignment, diagnosis and repair culminating in complete four wheel computerized alignment. Course Level Fee 2 (4 Credits, 2 Lecture, 4 Lab/Lab-Discussion)

AUT 081
Engine Performance II

Prerequisite: AUT 051 and AUT 052

This course is a study of fuel and exhaust systems, including carburetion, fuel injection, and computer-controlled fuel systems. Diesel fuel injection and turbo-chargers will also be discussed. Course Level Fee 1 (5 Credits, 3 Lecture, 4 Lab/Lab-Discussion)

AUT 082
Manual Dr Train and Axles

Prerequisite: AUT 048 or consent of instructor

This course is the study of the diagnosis and repair of clutches, manual transmissions, transaxles and differentials. CV joints, drive shafts, front-wheel drive and four-wheel drive operations will be discussed. Course Level Fee 1 (5 Credits, 3 Lecture, 4 Lab/Lab-Discussion)

AUT 083
Engine Performance III

Prerequisite: AUT 081 or consent of instructor

This course is a study of positive crankcase ventilation and emission control systems. Individual emission control devices including EGR, catalytic converters, and spark timing controllers are discussed. Course Level Fee 1 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

AUT 089
ASE Test Review

Review of subject material covered by National Institute Automotive Service Excellence Certificate Tests. Assists the technician in psychology of how to take the tests. (2 Credits, 2 Lecture)

BIO-SCIENCE (BIO---)

BIO 050
Basic Anatomy & Physiology

This course provides the fundamentals of anatomical structures and functions of the human body. Course Level Fee 1 (4 Credits, 4 Lecture)

BIO 085▼
Special Topics in Bio Science

Designed for elementary and secondary teachers to provide an essential background in the Application of science to a topic of societal interest. Course may be repeated for credit if a different topic is taught. (Repeatable 3 times) (Variable Credit 0.5/3 Credits, 3 Lecture)

BIO 100
Bio Science I

IAI L1 900L

An introduction to the fundamental processes and structures common to all living things. Course Level Fee 1 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

BIO 111
General Botany

IAI BIO 910

Prerequisite: BIO 100

A survey of the plant kingdom with emphasis on evolutionary advancements and the structure and function of plants and their economic importance. Course Level Fee 1 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

BIO 116
General Zoology

IAI BIO 910

Prerequisite: BIO 100

An introduction to the basic concepts of animal life and its diversity. Including: taxonomy, cellular and organismic structure and function, development and economic importance. Course Level Fee 1 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

BIO 120
Natural Science

Designed to give practical science experience to students of child care, elementary and special education. Much of the time is spent learning to do things rather than learning about things. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

BIO 130
Environmental Science

IAI L1 905L

An introductory course dealing with the principles that govern natural environments including man's relationship to them. Part of the course will be conducted in the field observing and measuring various aspects of ecology. Course Level Fee 1 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

BIO 150
Biotechnology in Society

IAI L1 906

This course explores the field of biotechnology in a comprehensive overview. Material covered includes the following: history of biotechnology; basic techniques used in biotechnology; current and future impacts of biotechnology; and ethical issues within biotechnology. (3 Credits, 3 Lecture)

BIO 160
Introduction to Genetics

IAI L1 906

An introduction to the principles of genetics with emphasis on human heredity. Included are Mendelian genetics, hereditary disorders, gene expression, genetic engineering and agricultural genetics. (3 Credits, 3 Lecture)

BIO 212
Vertebrate Zoology

Prerequisite: BIO 100 and BIO 116

Laboratory and field course. An in-depth study of North American vertebrates with emphasis on Illinois species. Includes taxonomy, distribution, habitats, adaptation, and economic importance. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

BIO 214
Comparative Anatomy of Vertebrates

Prerequisite: BIO 100 and BIO 116

Classification and comparative anatomy and vertebrates including the functions and evolution of their organ systems. Laboratory work includes a variety of vertebrate forms. Course Level Fee 2 (5 Credits, 4 Lecture, 2 Lab/Lab-Discussion)

BIO 225
Human Anatomy and Physiology I

Prerequisite: BIO 100 or consent of instructor

This course employs the regional approach to human structure and function using human cadavers. First of a two course sequence for allied health majors. Course Level Fee 3 (4 Credits, 3 Lecture, 3 Lab/Lab-Discussion)

BIO 226
Human Anatomy and Physiology II

Prerequisite: BIO 225

Continuation of BIO225, Human A & P I. Emphasis on human anatomy and physiology through the regional approach using human cadavers. Course Level Fee 3 (4 Credits, 3 Lecture, 3 Lab/Lab-Discussion)

BIO 235
Microbiology

Prerequisite: BIO 100 or consent of instructor

This course covers a survey of microorganisms with detailed study of the biology, metabolism, growth, death, genetics, and methods of differentiation of bacteria. Also classification, control of organisms by physical and chemical methods, immunology and diseases are covered. Course Level Fee 2 (4 Credits, 3 Lecture, 3 Lab/Lab-Discussion)

BIO 240
Anatomy

A comprehensive course emphasizing the basic principles of mammalian anatomy, regional dissection of all systems using representative forms including the human cadaver will be completed. Recommended for pre-medical technology, pre-medical, pre-pharmacy, pre-dentistry, pre-veterinary, special education, and other allied health majors. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

BIO 299
Human Physiology

A course designed to provide a more extensive understanding of control systems controlling body functions. Extensive use of physiographic recorders and biometers is employed. Course designed to meet the needs of medical technology, health professionals and physical education majors. Course Level Fee 2 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

BUILDING CONSTRUCTION TECH (BCT---)

BCT 041
Post Frame Construction

Prerequisite: BCT 050 and BCT 045

This course is designed to teach the students proper building construction techniques using a combination of lecture and hands-on experience. Emphasis is placed on job-site safety, framing techniques, window & door installation, roof installation, and siding. Course Level Fee 1 (Variable Credit 2/4 Credits, 1 Lecture, 6 Lab/Lab-Discussion)

BCT 045
Plans and Specifications

Enables the student to interpret architectural and engineering working drawings and specifications for residential and commercial construction. Incorporates site visits when possible. (3 Credits, 3 Lecture)

BCT 050
Construction Materials

Designed to give the student a basic understanding of the properties, uses and limitations of construction materials. Emphasis is placed on concrete, steel and wood. Enables the student to interpret architectural and engineering working drawings and specifications for residential and commercial construction. Incorporates site visits when possible. (3 Credits, 3 Lecture)

BCT 054
Basic Carpentry I Description

A combination of hands-on experience and classroom activities are utilized to teach the students basic rough carpentry skills including the proper use of tools and modern framing techniques. (4 Credits, 0.5 Lecture, 7 Lab/Lab Discussion)

BCT 055
Basic Carpentry II Description

This course further develops the skills learned in BCT 054 and places more emphasis on finishing the interior and exterior of residential construction projects. (4 Credits, 0.5 Lecture, 7 Lab/Lab Discussion)

Pending approval by the Illinois Community College Board.

BCT 062
Architectural Drafting II

Prerequisite: BCT 045 and BCT 050 and TEC 045

Emphasis is placed on residential and small commercial design. Problems presented have varied materials and structural systems. Some emphasis is placed on building code requirements. CAD Incorporated. Enables the student to interpret architectural and engineering working drawings and specifications for residential and commercial construction. Incorporates site visits when possible. Course Level Fee 1 (4 Credits, 1 Lecture, 7 Lab/Lab-Discussion)

BCT 064▼
Construction Surveying Layout

Prerequisite: CET 060 and TEC 052

This course will focus on the fundamentals of building layout, grade staking, topographic surveying, the use of a laser level, cut and fill calculations, checking square, and will further develop the leveling and angular measurement skills learned in Surveying I. (Repeatable 3 times). Course Level Fee 2 (3 Credits, 1.5 Lecture, 3 Lab/Lab-Discussion)

BCT 070
Construction Management

Prerequisite: BCT 050

Designed to give the student an understanding of the duties and responsibilities of the construction manager. Emphasis placed on cost control, scheduling, construction documents and reports. Site visits when possible, computer incorporated. Enables the student to interpret architectural and engineering working drawings and specifications for residential and commercial construction. Incorporates site visits when possible. (3 Credits, 3 Lecture)

BCT 076
Architectural Design

Prerequisite: BCT 062

The study of architectural design considerations which influence the energy efficiency of structures. Including project site integration, window orientation, framing techniques, material selection, and HVAC design. Heating and cooling load calculations, labs and computer aided drafting will be utilized. Course Level Fee 1 (4 Credits, 1 Lecture, 6 Lab/Lab-Discussion)

BCT 078
Architectural S.O.E.

Enables the student to gain on the job experience in the construction industry. Enables the student to interpret architectural and engineering working drawings and specifications for residential and commercial construction. Incorporates site visits when possible. (Variable Credit 0.5/5 Credits, 25 Lab/Lab-Discussion)

BCT 089
Construction Estimating

Prerequisite: BCT 045 and BCT 050

Prepares students to do quantity take offs on material, equipment and labor estimates for building construction. Incorporates computer estimating. Enables the student to interpret architectural and engineering working drawings and specifications for residential and commercial construction. Incorporates site visits when possible. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

BUSINESS (BUS---)

BUS 056
Marketing Seminar

Corequisite: BUS 057

Enables the student to participate in group discussions relating to successful employment. The student must complete a project relating to his/her job. This course is repeatable for credit. (1 Credits, 1 Lecture)

BUS 057
Marketing Internship

Corequisite: BUS 056

Provides employment experience in a position consistent with the career objective of the student. The position must be approved by the program director. This fall, spring, or summer semester variable credit course may be taken as the first or second student internship and is repeatable for credit. (4 Credits, 2 Lab/Lab-Discussion)

BUS 059
Medical Insurance and Coding

Introduction to types of medical insurance and procedural and diagnostic coding. Includes preparation of insurance forms, ICD-10-CM coding, procedural coding using HCPCS system, common insurance carriers and claims processing guidelines, Medicare, Medicaid, and workers' compensation. (3 Credits, 3 Lecture)

BUS 060
Automated Ofc Procedures

Prerequisite: BUS 113 or consent of instructor

Students manage office activities using computer software and equipment in a simulated office environment. Students use word processing, electronic mail and calendaring, and other specialized software. Course Level Fee 2 (3 Credits, 3 Lecture)

BUS 061
Office Transcription

Prerequisite: BUS 113

Designed to develop skill in transcribing recorded dictation for a variety of business sectors in an efficient manner using proper formats, spelling, and grammar. (2 Credits, 2 Lecture)

BUS 062
Legal Transcription

Prerequisite: BUS 113

Designed to develop skills in transcribing recorded legal dictation in an efficient manner using proper formulas, spelling, grammar, and legal terminology. (1 Credits, 1 Lecture)

BUS 063
Medical Transcription

Prerequisite: BUS 113 and AHE 041

Designed to develop skills in transcribing recorded medical dictation in an efficient manner using proper formats, grammar, spelling, and medical terminology. (1 Credits, 1 Lecture)

BUS 065
Legal Terminology

Gives knowledge and understanding of terms commonly used in the legal profession. (1 Credits, 1 Lecture)

BUS 074
Management Seminar

Corequisite: BUS 076

Enables the student to participate in discussions relating to successful employment. The student must complete a project relating to his/her job. This course is repeatable for credit. (1 Credits, 1 Lecture)

BUS 076
Management Internship

Corequisite: BUS 074

Provides employment experience in a position consistent with the career objective of the student. The position must be approved by the program director. This fall, spring, or summer semester variable credit course may be taken as the first or second student internship and is repeatable for credit. (4 Credits, 2 Lab/Lab-Discussion)

BUS 078
Management/Marketing Capstone

Prerequisite: Completion of 46 hours in either the Management Degree or Marketing Degree, or by consent of the Management/Marketing Program Coordinator.

Designed as a capstone class for both Management and Marketing majors. Areas of concentration will include current topics in business, job seeking and keeping skills, organizational politics and diplomacy, and an in depth examination of management/ marketing concepts. (1 Credits, 1 Lecture)

BUS 079
Professional Development

Designed as a pre-employment course. Areas of study include job search, professionalism, and communications. (3 Credits, 3 Lecture)

BUS 080
Office Professional Seminar

This course is designed to enhance and promote soft skills related to successful employment. Students will also discuss workforce and personal behaviors. (1 Credits, 1 Lecture)

BUS 081
Office Assistant Internship

Corequisite: BUS 080

Prerequisite: BUS 079

Designed to provide employment experience in a position using specialized skills. Field experience: minimum of 312.5 hours required of Office Assistant (Executive and Legal) and Office Manager majors. (5 Credits, 25 Lab/ Lab-Discussion)

BUS 082
Medical Transcriptionist Internship

Prerequisite: Take BUS 079 and BUS 114 and BIO 050 and minimum typing speed of 55 words per minute

Corequisite: BUS 080 speed of 55 words per minute

Designed to provide employment experience in a position that will utilize the specialized skills of the student. Placements will include positions in doctors' offices, hospitals, medical clinics, etc. (3 Credits, 15 Lab/Lab-Discussion)

BUS 083
Ofc Asst Internship-Med

Prerequisite: BUS 079; should be taken concurrently with BUS 080

Designed to provide employment experience in a position that will utilize the specialized skills of the student. Placements will include positions in medical offices, hospitals, and clinics. Field experience: minimum of 312.5 hours. (5 Credits, 5 Lab/Lab-Discussion)

BUS 084
Adv Medical Transcription

Prerequisite: BUS 063

Designed to develop skills with realistic dictation with comprehensive terminology in 13 specialties by medical professionals from various ethnic groups. (1 Credits, 1 Lecture)

BUS 085
Accounting Process

Develops a foundation and a working knowledge of the basic accounting procedures. Students will work through the accounting cycle. (1 Credits, 1 Lecture)

BUS 086
Statistics for Business

Develops a working knowledge of some of the statistical tools used in business analysis and decision making. (3 Credits, 3 Lecture)

BUS 087
Accounting Internship

Prerequisite: Completion of 24 semester hours of Credits in the program with a minimum of 2.0 GPA.

Designed to provide employment experience in a position that will utilize the specialized skills of the student. The position must be approved by the accounting program coordinator. (3 Credits, 15 Lab/Lab-Discussion)

BUS 089
Small Business Management

Covers entrepreneurship opportunities and challenges facing small business managers including how to conceptualize a feasible business concept, develop a comprehensive business plan, obtain start-up capital, execute the firm's strategy, and maintain financial and inventory control. (3 Credits, 3 Lecture)

BUS 090
Prin of Retailing

Designed for those owning or planning to become owners of a retail business, those involved or planning to become involved in the management function of a retail business, and/or those desiring a general knowledge of retailing as an institution. (3 Credits, 3 Lecture)

BUS 091
Prin of Advertising

Provides an overview of integrated marketing communications, promotional strategy, research, creativity, the role of an advertising agency and other support organizations, media selection and assessment, ethical and regulatory considerations, and budgetary allocations. (3 Credits, 3 Lecture)

BUS 092
Principles of Selling

Covers the various aspects of the personal selling process including organizational buying motives, consumer behavior, approaching the customer, making the presentation, handling objections, techniques for closing the sale, and managing the salesforce. (3 Credits, 3 Lecture)

BUS 093
Securities/Investment

Designed to increase knowledge in investment activities by providing basic information needed for sound personal investment through exploring a variety of investing fields and tools. (3 Credits, 3 Lecture)

BUS 094
Business Math

Covers basic applications of mathematics in the business world percentages, elementary algebra, purchasing, selling, interest, future value, present value, etc. It is designed to reinforce and expand business concepts held by the student through the use of mathematics. (3 Credits, 3 Lecture)

BUS 095
Fundamentals of Accounting

An introduction to basic accounting principles and techniques designed to give the student a general knowledge of accounting practices and terminology. Students will work through the accounting cycle for both a service and retail business. (3 Credits, 3 Lecture)

BUS 096
Federal Tax Accounting

Focuses on a practical study of the fundamentals of taxation and the current federal revenue act as it relates to individuals. (3 Credits, 3 Lecture)

BUS 097
Principles of Cost Accounting

Prerequisite: BUS 151 with grade of C or higher

A study of job order, process and standard cost systems and management's uses of cost information for planning and control. (3 Credits, 3 Lecture)

BUS 098
Intermediate Accounting

Prerequisite: BUS 151 with grade of C or higher

Provides an in-depth study of accounting theory and current practice. Includes the development of accounting theory, the format and content of the financial statements, and emphasizes revenue recognition and assets. (3 Credits, 3 Lecture)

BUS 099
Computerized Accounting

Prerequisite: BUS 095 or BUS 151 and CIS 040 or equivalent experience

A capstone course which reinforces financial accounting concepts and procedures through the use of personal computers and popular commercial software. A comprehensive study of computerized accounting systems in both service and merchandising environments. Course Level Fee 3 (3 Credits, 3 Lecture)

BUS 113
Keyboarding

Development of keyboarding skills on letters, numbers, and symbols keys. Students learn to format and print business letters, memos, reports, and tables using word processing features. Course Level Fee 1 (3 Credits, 3 Lecture)

BUS 114
Advanced Formatting

Prerequisite: BUS 113

Development of skill in formatting business correspondence, reports, forms, and tables to meet mailability and production standards. Instruction on word processing software is integrated throughout the course. Course Level Fee 1 (3 Credits, 3 Lecture)

BUS 115
Processing Info

Prerequisite: BUS 114

Development of skill in processing information using word processing software and applying critical thinking from a variety of office simulations. Advanced formatting skills are further developed through application to specialized office situations. Course Level Fee 1 (3 Credits, 3 Lecture)

BUS 120
Business Career Development

This course covers career development from targeting and researching a business career to preparing employment communications and interviewing. The course also covers business writing techniques, e-mail and memorandum communication, teamwork, professional development, and business etiquette. Course Level Fee 2 (3 Credits, 3 Lecture)

BUS 123
Notetaking

Develops skills using abbreviated writing in order to take notes quickly and accurately. Provides instruction for beginners who transcribe business letters, memos, and reports quickly in acceptable formatted copy meeting strict mailability standards. (4 Credits, 4 Lecture)

BUS 134
Principles of E-Commerce

A study of the planning and startup phases of an e-business, including topics on the global e-business economy, financing options, marketing, legal issues, web site issues, risk management, and security. (3 Credits, 3 Lecture)

BUS 141
Business Communications

Prerequisite: BUS 113 or the equivalent

Provides students a practical strategy for creating successful communication products used in business. (3 Credits, 3 Lecture)

BUS 142
Introduction to Business

Covers the objectives, organization, and role of business in the free-enterprise system. The course is designed to provide an overview of the field of business and to provide a framework into which specialized fields may be studied. (3 Credits, 3 Lecture)

BUS 151
Financial Accounting

IAI BUS 903

Prerequisite: High School Accounting or BUS 085 or BUS 095 or consent of instructor

A study of the financial statements, the accounting process and the principles and procedures underlying items on the financial statements. (3 Credits, 3 Lecture)

BUS 152
Managerial Accounting

IAI BUS 904

Prerequisite: BUS 151

Designed to use accounting information to help management make decisions concerning product costing, planning and controlling operations in an ever-changing business environment. (3 Credits, 3 Lecture)

BUS 200
Legal Environ/Business

An introduction to legal systems and law, especially the U.S. legal system. Business-legal relationships in the areas of criminal law, torts, product liability, and contracts are examined. Antitrust, consumer, labor, and environmental law are studied; also the international marketplace. (3 Credits, 3 Lecture)

BUS 247
Principles of Marketing

Covers the selection of target markets; the controllable variables of the marketing mix including product, place, price and promotion; and the uncontrollable variables including legal environment, economic environment, resources and objectives, cultural environment and the existing business structure. (3 Credits, 3 Lecture)

BUS 251
Principles of Management

Provides an overview of how managers utilize planning, organization, leadership, and control in order to ensure that a firm achieves its goals in the most efficient way possible. (3 Credits, 3 Lecture)

BUS 281
Business Statistics

IAI BUS 901

Prerequisite: MAT 130

Designed to provide a useful and working knowledge of data analytical skills involving interpretation and communication of descriptive measures, probability theory, correlation, interval estimation, hypothesis testing, simple linear regression, chi-square tests and ANOVA. Includes review of applicable computer software. (3 Credits, 3 Lecture)

BUS 285
Labor Relations

Prerequisite: BUS 142 or consent of instructor

A study of the labor and employment laws that have the greatest impact on the relationship between employers and employees, and the strategies managers utilize to maintain an effective level of employee satisfaction. Transfers as elective credit only. (3 Credits, 3 Lecture)

BUS 287
Intro to International Business

Prerequisite: BUS 142 or consent of instructor

An introduction to international trade theory and practice, with special emphasis on cultural diversity in the areas of marketing, management, finance economics, and the environment in which businesses function. Transfers as elective credit only. (3 Credits, 3 Lecture)

BUS 290
Human Resource Management

Prerequisite: BUS 142 or consent of instructor

Examines the managerial processes of planning, developing, and controlling human resources within the organization. Special emphasis will be placed on the areas of recruiting, selection, training, labor relations, salary, and benefit administration. Transfers as elective credit only. (3 Credits, 3 Lecture)

CHEMISTRY (CHM---)

CHM 085▼
Special Topics in Chemical Science

Designed for elementary and secondary teachers to provide an essential background in the application of science to a topic of societal interest. The course may be repeated for credit if a different topic is taught. (Repeatable 3 times) (3 Credits, 3 Lecture)

CHM 101
Physical Science II

IAI P1 903L

An introductory discussion of chemical principles. Presents a balance between basic knowledge needed to understand the uses of chemicals and applications of chemicals in everyday life. Course Level Fee 3 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CHM 111
Concepts of Chemistry

IAI P1 903L

An introduction to the concepts of chemistry where information is presented to students with little background or no prior interest in chemistry and those students who are not interested in abstract or mathematical theories. Course Level Fee 3 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

CHM 120
General, Organic and Biochemistry I

IAI P1 902L

Fundamentals of inorganic chemistry including history, atomic theory, bonding, stoichiometry, gases, solids, solutions, chemical equilibria, acids, bases, salts, pH, and electrochemistry. Course Level Fee 3 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

CHM 121
General, Organic and Biochemistry II

Prerequisite: CHM 120

Study of organic and biological chemistry for students in allied health programs, agriculture, forestry, and other majors with comparable requirements. Course Level Fee 3 (5 Credits, 4 Lecture, 2 Lab/Lab-Discussion)

CHM 150
General Chemistry I

IAI P1 902L, CHM 911

Prerequisite: Take 1 Year of High School Chemistry or CHM 111 or consent of Division Chair

General principles of chemistry for students majoring in chemistry, engineering or science professions. Topics include atomic theory, bonding, stoichiometry, gas laws and thermochemistry. Course Level Fee 3 (4 Credits, 3 Lecture, 3 Lab/Lab-Discussion)

CHM 151
General Chemistry II

IAI CHM 912

Prerequisite: CHM 150

Continues the study of general chemical principles. Topics include solids/liquids, solutions, kinetics, equilibrium, thermodynamics and electrochemistry. Course Level Fee 3 (4 Credits, 3 Lecture, 3 Lab/Lab-Discussion)

CHM 243
Organic Chemistry I

IAI CHM 913

Prerequisite: CHM 151

Corequisite: CHM 25

Fundamental introduction to organic chemistry including a study of hydrocarbons and alcohols with spectroscopy, stereochemistry, and reaction mechanisms. Course Level Fee 1 (4 Credits, 4 Lecture)

CHM 244
Organic Chemistry II

IAI CHM 914

Prerequisite: CHM 243

Corequisite: To be taken concurrently with CHM 254

This course is a continuation of Organic Chemistry I CHM243) with focus on carbonyls chemistry, oxidation and reduction, and biomolecules. Course Level Fee 3 (4 Credits, 4 Lecture)

CHM 253
Organic Chemistry Lab I

Corequisite: CHM 243

Prerequisite: CHM 151

Laboratory course introduces synthesis and the basic techniques for the separation, isolation, purification and identification of organic compounds. Course Level Fee 3 (1 Credits, 3 Lab/Lab-Discussion)

CHM 254
Organic Chemistry Lab II

Corequisite: Course is designed for concurrent registration in CHM 244.
Prerequisite: CHM 243 and CHM 253

Laboratory experiments in organic chemistry with a focus on multi-step synthesis. Course Level Fee 3 (1 Credits, 3 Lab/Lab-Discussion)

CIVIL ENGINEERING TECHNOLOGY (CET---)

CET 051
Civil Construction I

Study of civil construction including types of projects, personnel, equipment, materials, and methods. Blue print reading and specification interpretation for heavy construction is also emphasized. (3 Credits, 3 Lecture)

CET 052
Civil Construction II

Prerequisite: CET 051

Familiarizes the student with basic concepts of construction management with special emphasis on contracts, cost estimating, progress scheduling, engineering economics, and quality control. (3 Credits, 3 Lecture)

CET 054
Soils + Aggregates

Prerequisite: TEC 050

Familiarizes the student with basic concepts of construction management with special emphasis on contracts, cost estimating, progress scheduling, engineering economics, and quality control. Course Level Fee 1 (4 Credits, 2 Lecture, 4 Lab/Lab-Discussion)

CET 056
PCC Theory and Design

Prerequisite: CET 054 or BCT 050

Discussion of concrete through all stages of design, mix, delivery, placement, and curing with special emphasis on design, proportioning, and field testing. Course Level Fee 2 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

CET 057
Asphalt Theory and Design

Prerequisite: CET 054

Discussion of asphalt paving from plant to paver with special emphasis on testing and proportioning. Course Level Fee 2 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

CET 060
Surveying I

Fundamentals of basic surveying operations such as chaining, leveling and use of the transit and the basic calculations associated with these operations. Course Level Fee 1 (3 Credits, 1.5 Lecture, 3 Lab/Lab-Discussion)

CET 062
Surveying II

Prerequisite: CET 060 and TEC 05

Designed to apply the skills learned in Surveying I to practical problems such as closed traverse, area calculations, land surveying, topographic mapping, stadia surveys, and difficult level circuits. Course Level Fee 1 (3 Credits, 1.5 Lecture, 3 Lab/Lab-Discussion)

CET 064
Surveying III

Prerequisite: CET 062

Analysis of horizontal and vertical curves, precise control traverses and leveling. Emphasizes the use of total stations, electronic data collectors, GPS equipment and engineering software. Course Level Fee 2 (3 Credits, 1.5 Lecture, 3 Lab/Lab-Discussion)

CET 065
Data Collection for GIS Mapping

Prerequisite: ESC 106 or CET 060

This class is designed to familiarize students with the theory of the global positioning system and data collection methods associated with geographic information systems. Course Level Fee 2 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

CET 075
Supervised Occupational Exp

Enables the student to gain on the job experience in Civil Engineering Technology during the summer session. Course Level Fee 2 (Variable Credit 0.5/5 Credits, 25 Lab/ Lab-Discussion)

CET 076
Supervised Occupational Exp

Prerequisite: Enrollment in the CO-OP version of the Civil

Engineering Technology Program. Enables the student to gain on the job experience in Civil Engineering Technology. (5 Credits, 30 Lab/ Lab-Discussion)

CET 077
Supervised Occupational Experience

Prerequisite: CET 076

Enables the student to gain on the job experience in Civil Engineering Technology. (6 Credits, 30 Lab/Lab-Discussion)

CET 078
Supervised Occupational Experience

Prerequisite: CET 077

Enables the student to gain on the job experience in Civil Engineering Technology. (6 Credits, 30 Lab/Lab-Discussion)

CET 079
Supervised Occupational Exp

Prerequisite: CET 078 and sophomore standing in C.E.T. or Permission of Instructor

Designed to provide the student with work experience in the field while maintaining contact with an instructor for review and assistance. (3 Credits, 15 Lab/Lab-Discussion)

CET 081
CAD for Civil Engineering

Prerequisite: CET 082

A study of Computer-Aided Drafting (CAD) related to civil engineering applications. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CET 082
Civil Drafting

Prerequisite: CAD 056

Focuses on developing competence in drafting structural and detail drawings with special emphasis on interpreting field data to produce highway construction drawings and specifications. Course Level Fee 1 (3 Credits, 1 Lecture, 4 Lab/Lab-Discussion)

CET 087
Hydraulics/Drainage

Prerequisite: TEC 052

Fundamentals of statics kinematics and dynamic flow; drainage area and volume of flow calculations. (3 Credits, 3 Lecture)

COMMERCIAL DRIVERS LICENSE (CDL---)

CDL 010
CDL Recertification

Prerequisite: CDL 040

Designed for the student who has previously passed CDL 040 and who has not driven during the 60-days immediately following graduation. Student will be reissues a current completion certificate as required by most employers to be eligible for entry level employment. (0.5 Credits, 1 Lab/Lab-Discussion)

CDL 011
Illinois Class B Driver License Prep

This course prepares the student with core knowledge and skills needed to pass Illinois Secretary of State Class B written and behind-the wheel licensing tests. Course Fee of $333. (2 Credits, 1 Lecture, 2 Lab/ Lab-Discussion)

CDL 040
Commercial Truck Driver Training

Prerequisite: Be able to read and write the English language well enough to be able to communicate. Must be 18 years of age or older. Must be able to meet the Federal Department of Transportation physical requirements. Have a valid regular driver's license.

As a result of participating in this course, the student will: Illustrate and operate backing up procedures, inspections, and other yard activities. Demonstrate and operate road driving procedures. Course Fee $1,150. (7 Credits, 3 Lecture, 8 Lab-Lab Discussion)

COMPUTER AIDED DRAFTING (CAD---)

CAD 052
Microstation CAD I

Prerequisite: One semester drafting or instructor consent

Student will learn to use the Integraph Microstation Computer-Aided Drafting system to create simple to moderately complex technical drawings. Course Level Fee 1 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

CAD 056▼
CAD I

Basic Theory of CAD. Student will learn to use a Computer Aided Drafting system to create simple to moderately complex technical drawings. (Repeatable 1 Time) Course Level Fee 2 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

CAD 057
CAD II

This course is a continuation of CAD I (CAD 056). Such subjects as Symbol Libraries, Block Attributes, 3 D Design, Solid Modeling and Slide Shows are studied. Course Level Fee 3 (3 Credits, 1 Lecture, 4 Lab/Lab-Discussion)

CAD 058
CAD Drafting Systems

This course familiarizes the student with the setup, use and features of various CAD systems. Such subjects as operating systems, file management and customizing AutoCAD are also studied. Course Level Fee 2 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

CAD 059
Special Applications of CAD

Prerequisite: CAD 057 and CAD 058 or concurrent enrollment

This course is a more in depth study of computer aided design. The student will explore specific applications of CAD and industry requirements. Course Level Fee 3 (3 Credits, 1 Lecture, 4 Lab/Lab-Discussion)

CAD 060
3D Solid Modeling

Prerequisite: CAD 057

This course is an in depth study of three-dimensional solid modeling using different computer aided design programs. The student will learn to create, view, render and plot 3D models. Course Level Fee 3 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CAD 061
3D Parametric Design

Prerequisite: CAD 060

This course is study of three dimensional parametric design and prototype creation. The student will learn to create a family of part designs using parametric modeling CAD software. Creating design prototypes will also be covered. Course Level Fee 3 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CAD 062▼
Introduction to Solidworks

Prerequisite: CAD 057 or consent of the instructor

This course is a study of three-dimensional solid modeling using the Solidworks system. The student will learn to create, view, render and plot 3D models and assemblies. (Repeatable 3 times) Course Level Fee 1 (2 Credits, 2 Lecture)

CAD 063▼
Wind Energy Design

Prerequisite: CAD 057 or consent of instructor

This course is an in depth study of the mechanical design of wind turbine components. The student will learn to design, prototype, test and improve turbine blades and towers. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

CAD 075▼
Supervised Occupational Exp

Prerequisite: Must have completed 16 semester hours of CAD Certificate Program or CA A.A.S. degree or CAD A.A.S. degree and approval of instructor

Designed to promote on the job experience in CAD technology while applying skills and knowledge learned in the program. The employers and supervising instructors work closely with the student in an off campus job site. (Repeatable 2 times) (3 Credits, 15 Lab/Lab-Discussion)

COMPUTER INFORMATION SYSTEMS (CIS---)

CIS 040▼
Introduction to Computers

An operational oriented course which involves student experience using hardware, software, peripherals, operating procedures, and internet. Designed for novice computer users. (Repeatable 3 times) Course Level Fee 1 (1 Credits, 1 Lecture)

CIS 047▼
Graphic Design Capstone

Prerequisite: CIS 160 and CIS 098 and CIS 092 and CIS 088 and CIS 090 and CIS 051 and CIS 056

This capstone course will integrate InDesign, Illustrator, Photoshop, and Web Page Design concepts. The course features a simulated work environment. Students will complete graphic design applications in print and on the web for a simulated business. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 3 Lecture)

CIS 049▼
Content Management Systems

Corequisite: CIS 099

This course covers the creation and maintenance of a website using a content management system. The course will include, but is not limited to, business content, adding widgets and plugins, blogging, commenting, theme development, and user account setup. Repeatable 3 times) Course Level Fee 3 (2 Credits, 2 Lecture)

CIS 050▼
Advanced Web Technologies

Prerequisite: CIS 100 and CIS 095 and CIS 162 and CIS 164

This course focuses on server side technologies to create database driven websites. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 3 Lecture)

CIS 051▼
Designing for the Web

Prerequisite: CIS 099 and CIS 088 or equivalent experience

Tools, techniques, and design theory for creating well-designed web sites. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 3 Lecture)

CIS 052▼
Visual Basic

Prerequisite: CIS 156

Continuation of fundamentals of programming including selection, iteration, and condition structures. Introduction to graphical interface(s) and object-oriented, event-driven applications requiring the use of events, arrays, classes, inheritance, file handling, error handling and more. Also includes ASP.NET applications and ADO.NET applications. (Repeatable 3 times) Course Level Fee 2 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

CIS 053▼
Wireless Networking

Prerequisite: CIS 081

An overview course of wireless LAN technologies and implementations. Course of study includes both theory and configuration of current wireless devices, details of 802.11 standards and discussions of security implementations and concerns. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIS 054▼
PowerPoint

Introduction to the graphic presentation software PowerPoint. The basics of PowerPoint will be covered including creating, editing, and formatting slides. Adding graphic elements, animation and illustrations will also be covered. (Repeatable 3 times) Course Level Fee 2 (2 Credits, 2 Lecture)

CIS 055▼
Word

An introduction to the word processing software package Word that includes creating, editing, and formatting documents. Using tables, graphics, and mail merge will also be covered. (Repeatable 3 times) Course Level Fee 2 (2 Credits, 2 Lecture)

CIS 056▼
Advanced Software Applications

Prerequisite: CIS 160

Advanced instruction in an office suite program with emphasis on advanced topics in word processing, spreadsheet, and presentation software. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 3 Lecture)

CIS 058▼
Specialized Software Applications

Students handle office activities and use career-related software such as a computerized accounting system, desktop publishing, form management, calculator, medical scheduling and invoicing, and legal document preparation. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 3 Lecture)

CIS 060▼
Project Management

An overview of project management as it applies to information technology projects. Project management software will be introduced. (Repeatable 3 times) Course Level Fee 2 (2 Credits, 2 Lecture)

CIS 062▼
Computer Game Development

A practical exploration of video game development using both original programming and modification of existing game code. A variety of game types will be explored and created with the focus being on understanding, exploration and creativity in the development process. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIS 063▼
3-D Computer Animation

An overview and exploration of the different applications and techniques used in the development of 3D models for game, video and web animation. The course will explore a variety of commonly used tools and will identify their strengths and capacities. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIS 065▼
Advanced Game Development

Prerequisite: CIS 062

An in-depth examination of the different game genres available and how to create appropriate content for each. Integration of basic programming and animation skills with more advanced topics will be discussed and developed through several individual and group projects. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIS 066▼
Digital Video Production

An overview course discussing the development of digital video including planning and shooting, editing, titling, effects and animation, soundtrack creation and audio editing and output in DVD, video and the Web. Streaming output will also be discussed. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIS 067▼
Advanced Digital Video Production

Prerequisite: CIS 066

Advanced training in the many aspects of video production will be covered from concept development through final editing and delivery. Emphasis is placed on preproduction skills and techniques and live action direction of talent and crew. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIS 068▼
Computer Appl – Special Topics

Familiarizes the student with a word processing package and a spreadsheet package with emphasis on special topics pertinent to the student population. (Repeatable 3 times) Course Level Fee 2 (2 Credits, 2 Lecture)

CIS 069▼
Advanced Animation and Modeling

Prerequisite: CIS 063

Advanced features of modeling and animation software will be covered including building and character creation, texturing and animation. Emphasis will be placed on the importing of models from the environment and exporting of completed models to other applications. (Repeatable 3 times) (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIS 070▼
Network Security

Prerequisite: CIS 081

An overview course of security topics as it applies to a typical Server-based network. Course of study includes Security+ Exam content: authentication, remote access, external attacks, intrusion detection, web and email security, and disaster recovery. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIS 071▼
Introduction to Networking

An overview of computer hardware, software, networks, Internet, web applications, systems, security and troubleshooting. To be used as an introduction to the Network Administration program or to supplement another computer-related degree. (Repeatable 3 times) Course Level Fee 2 (2 Credits, 2 Lecture)

CIS 073▼
Survey of Operating Systems

An overview study of Operating Systems from command line systems through 32-bit and 64-bit GUI interface Operating Systems. The broad exposure is appropriate for the beginner, but the depth of study also makes it appropriate for the advanced student. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIS 074▼
IT Seminar

Corequisite: Completion of internship or concurrent enrollment

Places emphasis on the student's on-the-job experiences. Job related aptitude tests as well as job hunting techniques are discussed. (Repeatable 3 times) (1 Credits, 1 Lecture)

CIS 079▼
Client Operating System

A comprehensive examination of Client Operating Systems. Course of study includes, but is not limited to, Microsoft client operating systems. Topics include installation, configuration, optimization, administration, network integration and other support issues. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIS 081▼
Networking Essentials

An introduction to networking technology for Local Area Networks (LANs), Wide Area Networks (WANs) and the Internet. Designed for those seeking a career in network administration and support or those seeking professional certification. Leads toward Network+ Certification. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIS 083
Systems Design

Prerequisite: CIS 095 and CIS 156 and CIS 052 and CIS 162 and CIS 164

Study of the Systems Development Life Cycle including documentation standards, software packages, data communications and systems conversions will be covered. Emphasis is placed on analyzing, designing, implementing and documenting a complete system. (Repeatable 3 times) Course Level Fee 2 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

CIS 084▼
Server Operating Systems

Prerequisite: CIS 079

A comprehensive examination of server operating systems. Course of study includes, but is not limited to, Microsoft server operating systems. Topics include installation, configuration, optimization, administration, network integration and other support issues. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIS 085▼
Adv Server Operating System

Prerequisite: CIS 084

An advanced course in the design, installation, configuration, and support of a Local Area Network using the server operating systems and their tools. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIS 087▼
TCP/IP and Routing

Prerequisite: CIS 081

An in-depth study of the TCP/IP protocol and router technology. Topics include installation, configuration, optimization, and administration of routers in an Internet, intranet or LAN environment. Troubleshooting, network integration and other support issues will also be discussed. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIS 088▼
Adobe Photoshop

Prerequisite: CIS 040 or equivalent experience

This course introduces the basics of Photoshop, an image-editing program. These basics include working with layers, selections, color adjustment, paint tools, filters, and type transforming. Images can be downloaded from the web, scanned, created using a digital camera, or created in Photoshop. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 3 Lecture)

CIS 089▼
Advanced Routing

Prerequisite: CIS 087

An in-depth look at the components of the Routing and Switching and the tools that are used in the implementation, configuration, optimization, and troubleshooting of the LAN/WAN environment. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIS 090▼
Adobe InDesign

Prerequisite: CIS 040 or equivalent experience

Adobe InDesign is a desktop publishing software used to create design layouts. Students will integrate text, graphics, charts, and other elements to create documents. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 3 Lecture)

CIS 092▼
Adobe Illustrator

Prerequisite: CIS 040 or equivalent experience

Adobe Illustrator software, a PostScript-based drawing program, is used to create sophisticated artwork which can be imported into other programs for further manipulation. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 3 Lecture)

CIS 093▼
Access

An introduction to Microsoft Access, a database management application designed to operate in the Windows environment. (Repeatable 3 times) Course Level Fee 2 (2 Credits, 2 Lecture)

CIS 094▼
Excel

The basics of the Excel software package will be covered. This includes spreadsheet basics, formulas, functions, charting, data management, and collaborative tools. (Repeatable 3 times) Course Level Fee 2 (2 Credits, 2 Lecture)

CIS 095▼
Database Management

Prerequisite: CIS 160 or instructor consent

Structured Query Language will be used to design and manage a database. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 3 Lecture)

CIS 098▼
Advanced Desktop Skills

Prerequisite: CIS 088 and CIS 090 and CIS 092

InDesign, Illustrator, and Photoshop are used to create advanced desktop publishing designs. Emphasis is placed on creating your own styles, graphics, and layouts. Pre-press and printing techniques are also covered. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 3 Lecture)

CIS 099▼
Web Page Design

Prerequisite: Type 30 words per minute

This introductory course focuses on creating and maintaining web pages using XHTML and CSS code. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 3 Lecture)

CIS 100
Advanced Web Page Design

Prerequisite: Take CIS 099 and CIS 156

This course focuses on using client-side technologies to create interactive web pages. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 3 Lecture)

CIS 101▼
Internet Systems and Applications

An introduction to networking basics through the Internet. Students will learn about Internet services, etiquette, searches, E-mail, and other internet skills. (Repeatable 3 times) Course Level Fee 2 (2 Credits, 2 Lecture)

CIS 156▼
Computer Logic

Prerequisite: CIS 160 or concurrent enrollment or HS computer class

Familiarizes the student with techniques and problem-solving aids necessary for the solution of computer programming. The exercises will use a programming language to develop the skills needed for solving problems. (Repeatable 3 times) Course Level Fee 1 (3 Credits, 3 Lecture)

CIS 160▼
Practical Software Applications

IAI BUS 902

Prerequisite: CIS 040 or equivalent experience or instructor consent

Provides an opportunity for the student to work with various types of computer software. These learning activities include MS Windows, word processing, spreadsheet design, database management, Internet access, and presentation software. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 3 Lecture)

CIS 162▼
Object-Oriented Programming I

Prerequisite: CIS 156

This course teaches the fundamentals of object-oriented programming. It develops an understanding of data types, methods, classes, objects, programming structures, functions, and arrays. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 3 Lecture)

CIS 164▼
Object-Oriented Programming II

Prerequisite: CIS 162

This course teaches advanced concepts in object-oriented programming. It develops an understanding of Windows programming, events, inheritance, data files, databases, debugging, exceptions, and Web-based applications. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 3 Lecture)

CIS 170▼
Java Programming

Prerequisite: CIS 156

A study of object oriented programming using the Java language. Includes statements, expressions, methods, libraries, classes and objects. Development of objects including the concepts of polymorphism, encapsulation and inheritance are covered. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 3 Lecture)

COMPUTER INTEGRATED MANUF (CIM---)

CIM 044▼
Industrial Robotics

A comprehensive study of industrial robotics used in computer integrated manufacturing systems. Some areas of study include history, classification, tooling, sensors, safety and justification of robotic systems. The student will learn robotics related to manufacturing, and fundamental robotic programming. (Repeatable 3 times) (2 Credits, 2 Lecture)

CIM 050▼
CNC Machine Operator

Prerequisite: MTT 050

A study designed to highlight the theory and application of CNC machining centers, machine configuration, fixture and tool offsets/ compensations, production runs, setup and cycle time reductions. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIM 060
CNC Machining

Prerequisite: MTT 050 and CAD 056

Introduction to computer numerical controlled (CNC) machine tool operation, programming and processes. Manual and computer assisted part programming with machine tool verification. Course Level Fee 4 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIM 075▼
Supervised Occupational Experience

Prerequisite: Must have completed 12 semester hours of CNC Certificate Program

Designed to promote on the job experience in CNC technology while applying skills and knowledge learned in the program. The employers and supervising instructors work closely with the student in an off campus job site. (3 Credits, 15 Lab/Lab-Discussion)

CIM 092
Computer-Aided Manufacturing

Prerequisite: CIM 060 and CAD 056

An introduction to the use of a CAD/CAM system. Student will learn to use a computer for design and to automatically create programs to control manufacturing equipment. Course Level Fee 4 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

CIM 094
Computer Integrated Manf

Prerequisite: CIM 092 and CIM 044

An introduction to Computer Integrated Manufacturing. Student will learn to setup, program and troubleshoot a CIM system. This is the final course in the CIM Technology degree program. Course Level Fee 3 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

COSMETOLOGY (COS---)

COS 050
Cosmetology I

This course focuses on professional rules and regulations, shampooing, basic chemistry, hair shaping, bacteriology, facials, scalp treatments, sanitation and safety for students and clients. Course Level Fee 2 (6 Credits, 3 Lecture, 15 Lab/Lab-Discussion)

COS 052
Cosmetology II

Prerequisite: COS 050

This course focuses on thermal designing, permanent waving, manicuring, pedicuring, make-up techniques, and hair coloring. Course Level Fee 2 (6 Credits, 3 Lecture, 15 Lab/Lab-Discussion)

COS 054
Cosmetology III

Prerequisite: COS 050 and COS 052

This course consists of advanced hair coloring, decolorizing, hair styling, superfluous hair, artificial nails, pH chemistry, and chemical relaxing. Course Level Fee 2 (6 Credits, 3 Lecture, 15 Lab/Lab-Discussion)

COS 056
Cosmetology IV

Prerequisite: COS 050 and COS 052 and COS 054

This course focuses on nail structure, including disorders and diseases, dermatology, disorders of the skin and scalp, electricity, artificial hair and advanced chemistry. Course Level Fee 2 (7 Credits, 4 Lecture, 15 Lab/Lab-Discussion)

COS 058
Cosmetology V

Prerequisite: COS 050 and COS 052 and COS 054 and COS 056

This course is a study of basic anatomy and the related areas; also retailing, job marketing skills and student-salon internship. Course Level Fee 2 (7 Credits, 4 Lecture, 15 Lab/ Lab-Discussion)

COS 059
Cosmetology Clinic

Prerequisite: COS 050 and COS 052 and COS 054 and COS 056 and COS 058

Designed for Lake Land College Cosmetology students who have not completed the state required 1500 hours during the regular modules. (Variable Credit 0.5/3 Credits, 9 Lab/Lab-Discussion)

COS 060
Salon Management

Covers areas of opportunity and the outlook for small business managers, success and failure patterns, capital needs and sources, organizing, directing, controlling, finance, locations, facilities, marketing, and inventory control. (3 Credits, 3 Lecture)

COS 061
Computer Appl for Cosmetology

Provides an opportunity for the student to work with various types of software on the microcomputer. These learning activities include MS Windows, word processing, spreadsheet design, database management,

Internet access, and cosmetology specific software. Course Level Fee 2 (3 Credits, 3 Lecture)

COS 076
Cosmetology Teacher I

Prerequisite: Current Illinois Cosmetology License

This course is designed to develop basic cosmetology teaching skills; a study of basic theory and fundamental principles of teaching. Course Level Fee 2 (6 Credits, 3 Lecture, 9 Lab/Lab-Discussion)

COS 077
Cosmetology Teacher II

Prerequisite: Current Illinois Cosmetology License and COS 076

This course provides supervised student teaching; preparation and presentations of lesson plans, evaluation of subject matter, business procedures related to the operation of a cosmetology school. Course Level Fee 2 (6 Credits, 3 Lecture, 9 Lab/Lab-Discussion)

COS 078
Cosmetology Teacher III

Prerequisite: Current Illinois Cosmetology License and COS 076 and COS 077

This course is a continuation of presenting various educational methods: testing student and completing a teaching portfolio. Course Level Fee 2 (5 Credits, 3 Lecture, 4 Lab/ Lab-Discussion)

CRIMINAL JUSTICE (CJS---)

CJS 054
Correction Officer/Cycle Trng

Cycle training consists of 40 clock hours of mandatory refresher topics provided by the Department of Corrections. Topics may include: review of administration directives, first aid & safety, security, report writing and legal issues, substance abuse and other related topics. (2.5 Credits, 2.5 Lecture)

CJS 056
Illinois Concealed Carry Handgun

Prerequisite: Be at least 21 years of age; have a valid FOID card if a non-resident; not have any disqualifiers as described under the Illinois Firearm Concealed Carry Act.

This course provides required training to individuals who want to pursue a concealed carry permit under Illinois Public Act 98-0063. This is the complete 16 hour course which includes classroom and practical experience on a firing range. Course Level Fee 4 (1 Credits, 1 Lecture)

CJS 057▼
IL Concealed Carry Supplement

Prerequisite: Successful completion of an approved training course as illustrated in Public Act 98-0063; be at least 21 years of age; have a valid FOID card (if Illinois resident) or be eligible for a FOID card if a non-resident; not have any disqualifiers as described under the Illinois Firearm Concealed Carry Act.

This course provides the supplemental eight hour training to individuals who want to pursue a concealed carry permit under Illinois law and have successfully completed an approved training course per Public Act 98-0063. Course Level Fee 4 (0.5 Credits, 0.5 Lecture)

CJS 064
Spec Prob in Law Enforcement

This course focuses on controversial issues facing the criminal justice and correctional systems such as corruption, brutality, politics, crime prevention, high risk situations, hostage negotiations, protective custody and many others. (4 Credits, 4 Lecture)

CJS 071
Orientation to Corrections

A study of the history of corrections, criminal law, rights of the convicted offender, types of detentions, correctional management, release from prison and juvenile corrections. (3 Credits, 3 Lecture)

CJS 080
Introduction to Policing

This course provides an introduction to the police profession by examining the history of policing, the mental and physical requirements for a police officer, and police operational issues. Consideration is also given to current policing trends. (3 Credits, 3 Lecture)

CJS 081
Police Report Writing

This course provides an understanding of the fundamental principles of good writing and effective police reporting by developing a practical, basic understanding to the types of reports and forms commonly used in the field of criminal justice. (2 Credits, 2 Lecture)

CJS 090
Community Policing

This course examines the relationship between police and the community and provides information on how to strengthen that relationship. Strategies for effective community policing are examined. (3 Credits, 3 Lecture)

CJS 091
Ethics in Criminal Justice

This course analyzes various aspects of ethics in the criminal justice system, including the police, the court system, and the correctional system. (3 Credits, 3 Lecture)

CJS 092
Police Management & Supervisio

This course focuses on organizational and managerial roles in law enforcement. Emphasis is placed on organizational structure, administrative procedures, and enforcement responsibilities. (3 Credits, 3 Lecture)

CJS 101
Special Topics Correction Mgt

Allows students to identify a current issue in correctional management and develop techniques for improvement. (1 Credits, 1 Lecture)

CJS 104▼
Criminal Justice Seminar & Internship

Prerequisite: Sophomore standing; 12 credit hours of CJS classes.

Off-campus work experience in the criminal justice field. Students will be assigned to a criminal justice agency(s) and observe the criminal justice field. Open to criminal justice majors only. Subject to internship coordinator and agency approval, including background check. Course Level Fee 3 (Variable Credit 0.5/4 Credits, 1 Lecture, 15 Lab/Lab-Discussion)

CJS 150
Intro/Criminal Just

IAI CRJ 901

Focuses on an overview of the justice system with emphasis on the total system of police, courts, and corrections. (3 Credits, 3 Lecture)

CJS 152
Criminal Investigation I

Focuses on the fundamentals of investigation, crime scene applications, and investigative techniques and procedures. Upon completion of this course, the student will understand the theory and practicality of investigation from crime scene to courtroom. (3 Credits, 3 Lecture)

CJS 153
Police Operations

This course focuses on the duties and responsibilities of the patrol officer. Topics covered will include routine patrol, traffic enforcement, and officer survival.(3 Credits, 3 Lecture)

CJS 156
Criminal Law

A study of the concept of social order, examining criminal law. Crime is defined and examined as is criminal responsibility, mental state, physical act and other fundamental legal doctrines. (3 Credits, 3 Lecture)

CJS 158
Juvenile Justice

IAI CRJ 914

Designed to familiarize the student with development and trends in the juvenile justice system. It includes delinquency prevention, causation of juvenile crime, and treatment and control of the juvenile delinquent. (3 Credits, 3 Lecture)

CJS 160
Criminal Evidence and Procedure

Prerequisite: CJS 156

Focuses on the application of Constitutional law. Procedural responsibilities of the police as they apply to the constitutional rights of the individual will be emphasized. (3 Credits, 3 Lecture)

CJS 166
Corrections

IAI CRJ 911

Enables the student to develop an understanding of the current problems in correctional institutions. Sentencing trends, alternatives to incarceration, inmate life of population, and their effect on the system will be examined. (3 Credits, 3 Lecture)

CJS 250
Criminology

This course analyzes criminological theories. Crime in relation to physical and psychological factors, to cultural areas, to the family and to other social institutions will be examined. Consideration is given to professional crime and white collar crime. (3 Credits, 3 Lecture)

DENTAL HYGIENE (DHY---)

DHY 035
Pit and Fissure Sealants
This course is designed to meet the educational requirements and lab experience necessary for the Dental Assistant to be certified to place pit and fissure sealants in the office. (0.5 Credits, 0.5 Lecture)

DHY 036
Coronal Polishing/Dental Asst
This course will meet the legal requirements regarding coronal polishing by Dental Assistants. This course will include a minimum of four hours of didactic study in anatomy, physiology, pharmacology, dental emergencies, and two hours of clinical instruction. (0.5 Credits, 0.5 Lecture)

DHY 039
Nitrous Oxide-Dental Assistant
The Illinois Dental Practice Act identifies nitrous oxide sedation monitoring as a dental assisting duty. The Dental Assistant will receive didactic and clinical training that will qualify him/her to monitor this form of pain control. (1 Credits, 1 Lecture)

DHY 041
Dental Terminology
This course prepares the student to enter the dental hygiene program by introducing terms commonly used in the practice of dentistry and dental hygiene. The student will also be exposed to basic numbering systems and charting methods. Course Level Fee 1 (0.5 Credits, 0.5 Lecture)

DHY 043
Dental Hygiene Board Review
Generalized review of dental hygiene curriculum that helps to prepare the student to take the National Dental Hygiene Board Examination. Course Level Fee 1 (0.5 Credits, 0.5 Lecture)

DHY 044
Admin of Local Anesthetics
This course is designed to educate and give clinical experience to the Dental Hygienist in the administration of local anesthesia, in compliance with the Dental Practice Act. (2.5 Credits, 2.5 Lecture)

DHY 045
Radiology
This course is designed to include the principles and biological effects of radiation and safety measures used in dental radiology. Correct methods of exposing, processing, and mounting intraoral radiographs for diagnostic purposes will be stressed. Course Level Fee 4 (5 Credits, 2 Lecture, 6 Lab/Lab-Discussion)

DHY 060
Dental Assisting
This course is an 8-week module in Dental Assisting to prepare the student in those areas pertinent for employment in the dental office. Does not qualify for Federal Title VI financial aid or Illinois Monetary Award (MAP). Course Level Fee 4 (8 Credits, 5 Lecture, 6 Lab/Lab-Discussion)

DHY 066▼
Dental Histology & Embryology
This course is designed to increase the student's knowledge of the early embryonic development of the face and oral cavity and the process of tooth development. Included is the study of the microscopic structure of the tissues of the dentition and its supporting structures. Course Level Fee 2 (2 Credits, 2 Lecture)

DHY 067
Dental Anatomy
Prerequisite: Admission into Dental Hygiene Program
This course is designed to provide a thorough knowledge of the head, neck, teeth, and related structures. Course Level Fee 3 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

DHY 068
Dental Hygiene I
Prerequisite: Admission into Dental Hygiene Program
This course is designed to acquaint the beginning dental hygiene student with the duties and responsibilities in the clinical aspect of the profession and the role the hygienist plays in today's health. (3 Credits, 3 Lecture)

DHY 069
Pre-Clinic Hyg I
Prerequisite: Admission into Dental Hygiene Program
This course is an introduction to the duties and basic skills the dental hygienist uses in daily clinical practice. Course Level Fee 4 (4.5 Credits, 9 Lab/Lab-Discussion)

DHY 071
Dental Hygiene II
Prerequisite: DHY 068
This course is a continuation of Dental Hygiene I, advanced instrumentation and evaluation of the patient's oral health are given greater attention. An introduction to emergencies in the dental office and a continuation of preventive dentistry and patient education are included. (3 Credits, 3 Lecture)

DHY 072
Preclinical Hygiene II
Prerequisite: DHY 069
This course is a continuation of Preclinic I; Preclinic II continues with the development of clinical skills. Emphasis will be placed on prevention through patient education. The student will provide treatment for live patients. Course Level Fee 4 (3.5 Credits, 7 Lab/Lab-Discussion)

DHY 073
Immunology
Prerequisite: DHY 068 and DHY 069
This course familiarizes the dental hygiene student with the immune system and its components, functions and responses. (1 Credits, 1 Lecture)

DHY 080
Pathology
This course gives a brief insight into general principles of pathology with heavy emphasis on specifics of oral pathology. Terminology will be taught in addition to description of oral diseases, lesions and their treatment. (3 Credits, 3 Lecture)

DHY 081
Periodontology
Prerequisite: DHY 071
This course focuses on the clinical aspects of the different forms of periodontal disease, and philosophy of treatment, the role of the dental hygienist in patient education for the prevention of periodontal problems, and the chairside management of these pathological conditions. (3 Credits, 3 Lecture)

DHY 082
Dental Hygiene Seminar I
This one hour credit course further introduces the dental hygiene student to clinical responsibilities required in providing patient treatment. (1 Credits, 1 Lecture)

DHY 083
Clinic I
Prerequisite: DHY 072
Requires the student to perform under supervision, a specific number of oral prophylaxis on child and adult patients. Some advanced skills will be introduced and experience is gained in sterilization and reception responsibilities. Course Level Fee 4 (3 Credits, 9 Lab/Lab-Discussion)

DHY 084▼
Dental Hygiene Seminar II
This course broadens the dental hygiene student's clinical skills focusing on individual patient needs and assessment. Course Level Fee 1 (1 Credits, 1 Lecture)

DHY 086
Pharmacology
This course focuses on the study of drugs affecting the practice of dentistry. (2 Credits, 2 Lecture)

DHY 087
Special Needs
This course provides for continuing advancement in clinical and community settings. Content includes treatment of special needs patients, the development of a pre-school educational model. (2 Credits, 2 Lecture)

DHY 088
Clinic II
Prerequisite: DHY 083
This course is designed to improve the clinical skills of the dental hygiene student. Focus is on total assessment of individual patient needs, advanced instrumentation procedures and the special needs patient. Course Level Fee 4 (4 Credits, 12 Lab/Lab-Discussion)

DHY 089
Lab Proced/Dent Hyg
This course is a comprehensive study of the science of dental materials and their application in dental hygiene. Course Level Fee 4 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

DHY 091▼
Pain Management for Dental Hygienist
This course is designed to provide the dental hygiene student with the skills to manage patient discomfort. This includes topical anesthesia, local anesthesia, and nitrous oxide analgesia during dental hygiene services. This course complies with the Illinois Dental Practice Act. Course Level Fee 4 (2 Credits, 1 Lecture, 3 Lab/Lab-Discussion)

DHY 092
Dent Public Health
This course is designed to apply the dental hygiene process of care (assessment, diagnosis, planning, implementation, and evaluation) learned in DHY 096 to the clients of the extended care facilities and to the students of the schools receiving the dental health presentations during dental health month. Course Level Fee 4 (1 Credits, 3 Lab/Lab-Discussion)

DHY 093
Ethics and Jurisprudence
Prerequisite: DHY 087
This course is designed to give insight into the applications of dental hygiene practice. The development of professionalism, the Illinois Dental Practice Act, ethical principles, jurisprudence, employment, and the organization of the American Dental Hygienists, are topics that will be introduced and discussed. (3 Credits, 3 Lecture)

DHY 094
Clinic III
Prerequisite: DHY 088
This course provides continued advancement of clinical competencies. The student is required to perform additional functions in clinical settings to broaden clinical skills. Treatment will also be provided for patients from selected outside agencies. Course Level Fee 4 (4 Credits, 12 Lab/Lab-Discussion)

DHY 095
Seminar III
The purpose of this course is to expand the dental hygiene student's knowledge base and skills in preparation for clinical practice as an entry level registered dental hygienist. (1 Credits, 1 Lecture)

DHY 096
Community Dental Health
This course provides a study of the principles and methods in assessing, planning, implementing, and evaluating community dental health programs. Topics include epidemiology, research methodology, biostatistics, preventative dental care, dental health education, program planning, financing and utilization of dental services. (1.5 Credits, 1.5 Lecture)

EARLY CHILDHOOD EDUCATION (ECE---)

ECE 041▼
The Creative Play Classroom
The emphasis in this course is on developing hands-on materials that enhance play in a creative learning environment. (Repeatable 3 times) Course Level Fee 1 (1 Credits, 1 Lecture)

ECE 051
Infant/Toddler Environment
This courses emphasizes the characteristics of high quality infant/toddler caregivers, curriculum, indoor/outdoor space and play equipment/toys vital for developmental learning. Course requirements include 20 hours of hands-on practicum in a community setting. Course Level Fee 3 (3 Credits, 3 Lecture)

ECE 052
Heads Up! Reading
This course focuses on developmentally appropriate methods for enhancing literacy development in young children from birth through age five, analyzing and selecting literature for diverse groups, the teacher's role in promoting language and literacy, and applying these methods in early childhood settings. (3 Credits, 3 Lecture)

ECE 081
Early Childhood Clinical
Prerequisite: ECE 100 or approval by program coordinator
This course provides students experience in preparing and implementing developmentally appropriate activities. Students gain understanding of classroom management techniques and areas of focus when planning. The course includes 30 hours of practical experience in the on-site Child Care Lab. Course Level Fee 3 (1 Credits, 2 Lab/Lab-Discussion)

ECE 083
Instructional Methods
This course enables students to do total program planning consistent with the developmental needs of children. Course Level Fee 1 (3 Credits, 3 Lecture)

ECE 086
Nanny/Family Relations
Focuses on specific responsibilities of the nanny as a profession, as well as interpersonal relationships and personal adjustment within the live-in family setting. (2 Credits, 2 Lecture)

ECE 087
Organization/Mgt of Preschools
This course focuses on state rules and regulations for operating a licensed child care facility. Room layout of an efficient facility, arrangement of outside playground areas, and the selection of furniture and equipment will also be discussed. (3 Credits, 3 Lecture)

ECE 095
Creative Activities for Children
This course provides students an understanding of the value of and practical experience in preparing creative activities and experiences for children. The student is given many opportunities to explore, develop, and appreciate various types of creative media for preschool children. Course Level Fee 3 (4 Credits, 4 Lecture)

ECE 100
Intro to Early Childhood Educ
This course focuses on an overview of early childhood care and education that includes basic values, professional disposition, program operation, historical influences, assessment, and structure. Includes 20 hours of practicum.
Course Level Fee 3 (3 Credits, 3 Lecture)

ECE 102
Health/Safety/Nutri/Yng Child
This course focuses on the health, safety, and nutritional needs of children in group settings as well as the personal health of the individual. Emphasis is placed on preventive health through education and the development of healthy habits. Course Level Fee 1 (3 Credits, 3 Lecture)

ECE 110
Child Behavior Management
This course focuses on the use of positive redirective techniques in shaping behavior so children can learn self discipline and self control. Observation of discipline problems and analyzation of procedures are required of the student. (3 Credits, 3 Lecture)

ECE 120
Field Experience Seminar
Prerequisite: Mod prior to ECE 125 or approval of program coordinator
This course prepares the student for the Field Experience practicum (ECE125) and includes preparation of credentials for seeking employment. (1 Credits, 1 Lecture)

ECE 125
Field Experience
Prerequisite: Enrolled in ECE 120 and approval by program coordinator. A 'C' average in ECE and EDU prefix courses is required.
Supervised practicum designed for Early Childhood and Child & Family Services and Paraprofessional Education majors to provide on-the-job experience. Practicum will include application of: program and classroom management skills, managing daily routines, curriculum development, agency policies and regulations, and enhancement of family involvement. Course Level Fee 3 (Variable Credit 0.5/4 Credits, 20 Lab/Lab-Discussion)

EARTH SCIENCE (ESC---)

ESC 085▼
Special Topics in GIS Science
Designed to provide an essential background in the application of geospatial science to a topic of societal interest. May be repeated for credit if a different topic is taught. (Repeatable 3 times) (3 Credits, 3 Lecture)

ESC 100
Physical Geology
IAI P1 907L
Physical geology stresses the basic geologic concepts and processes that are responsible for creating and shaping the Earth. Materials covered include the topics of: rocks, minerals, volcanoes, earthquakes, stream erosion, wind erosion, glaciers groundwater, Earth interior, plate tectonics, and gravity. Course Level Fee 1 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

ESC 102
Weather and Climate
IAI P1 905L
This course emphasizes the dynamics of the atmosphere with focuses on atmospheric evolution, seasonal controls of climate, human impacts, atmospheric humidity, air pressure, severe weather, and climate classification. Extensive use of Internet resources and software will be required. Course Level Fee 2 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

ESC 104
Physical Geography
IAI P1 909L
Stresses the physical environment of earth. Emphasis is placed upon basic concepts in geography with a focus on the biosphere,

lithosphere, atmosphere, and hydrosphere. Extensive use of Internet resources and software will be required for this course. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

ESC 106
Introduction to Geographic Info Systems

Introduction to basic Geographic Information Systems (GIS) concepts, using the ArcView GIS software program. Course will focus on developing both a theoretical background in the technology and real world applications using GIS techniques. Course Level Fee 4 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

ESC 114
Advanced Vector GIS

This six-module course introduces ArcGIS and provides the foundation for becoming a successful ArcView, ArcEditor, or ArcInfo user. Students learn how to use ArcMap, ArcCatalog, and ArcToolbox and see how they work together to provide a complete GIS software solution. Course Level Fee 2 (3 Credits, 1.5 Lecture, 3 Lab/Lab-Discussion)

ECONOMICS (ECO---)

ECO 130
The American Economy

Combines Macroeconomics and Microeconomics and focuses on basic supply and demand analysis, national income accounting, business cycles, inflation, unemployment, fiscal and monetary policy, and international economic problems. (3 Credits, 3 Lecture)

ECO 231
Principles of Economics I (Macro)
IAI S3 901

Focuses on the nature and method of economics, basic supply and demand analysis, national income accounting, business cycles, inflation and unemployment, fiscal policy, money and banking, and monetary policy. (3 Credits, 3 Lecture)

ECO 232
Principles of Economics II (Micro)
IAI S3 902

Prerequisite: ECO 231

Focuses on free enterprise and the economic functions of government, advanced supply and demand analysis, pricing in competitive/non-competitive markets, and pricing in resource markets. (3 Credits, 3 Lecture)

EDUCATION (EDU---)

EDU 025
Paraprofessional Test Prep

This course is as a refresher/review course for paraprofessionals that have learned the subject matter earlier in their educational experience in order to prepare for the Paraprofessional Certification test mandated by the No Child Left Behind (NCLB) Act. (0.5 Credits, 0.5 Lecture)

EDU 100
Introduction to Education

An overview of the American education system. Social, historical and philosophical foundations give perspective to an examination of current issues, policies and trends in the field of education, including cultural diversity. A 30-hour practical lab is required for this course. Course Level Fee 4 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

EDU 103
Teaching/Learning W/Technology

Prerequisite: CIS 040 or HS computer application class

This course features practical ways to use various types of technology for the K-12 classroom teacher. This is a basic course in microcomputers, their operation, and utilization in K-12 classrooms. (3 Credits, 3 Lecture)

EDU 190
Introduction/Special Education

This course is designed to introduce the student to the study of exceptional children, including a survey of the child's developmental traits and examination of appropriate intervention techniques. (3 Credits, 3 Lecture)

EDU 200
Educational Psychology

The application of psychology principles to education. Special emphasis on understanding growth and development, the learning process, motivation, intelligence, evaluation, measurement, creativity and the impact of culture on learning styles. (3 Credits, 3 Lecture)

EDU 210
Diversity in Schools and Societies

This course is a study of how schooling is shaped by and ought to respond to the social contexts in which it occurs, particularly in multicultural and global contexts. (3 Credits, 3 Lecture)

ELECTRONIC ENGINEERING TECH (EET---)

EET 040
Basic Electronics

Develops an understanding of the basic DC electricity concepts such as voltage, current, resistance, power and energy. The course covers resistive circuits through series-parallel circuits. Laboratory work includes use of analog and digital meters and circuit construction. Course Level Fee 1 (2.5 Credits, 1.5 Lecture, 2 Lab/Lab-Discussion)

EET 045
Active Devices

Fundamentals of basic solid state components through the most common and popular devices and their applications are presented. Course Level Fee 1 (5 Credits, 3 Lecture, 4 Lab/Lab-Discussion)

EET 047
Video Systems

Prerequisite: EET 044 and EET 046

Comprehensive coverage of all types of video systems from the standpoint of theory, operation, troubleshooting, alignment, and applications. Course Level Fee 1 (5 Credits, 3 Lecture, 4 Lab/Lab-Discussion)

EET 048
Digital Circuits

Prerequisite: EET 076

Applications of digital circuits and devices to consumer products. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

EET 049
Robotics Fundamentals

Introduces the concepts of robotics, automation, and guided vehicles by looking at various applications, types, classifications and operation. Operator and safety precautions are stressed. (1 Credits, 1 Lecture)

EET 050
Electric Circuits I

Prerequisite: EET 040 with minimum grade of 'C'

Introduces the student to the sin wave and the relative parameters such as frequency, period, rms and ave values. Capacitance and inductance are introduced and their effect in sin wave circuits are studied. Lab work includes familiarization with the oscilloscope. Course Level Fee 1 (2.5 Credits, 1.5 Lecture, 2 Lab/Lab-Discussion)

EET 052
Solid State Devices

Prerequisite: EET 050

Study of basic solid state devices and associated circuits. Devices included will be general purpose diodes, zener diodes, bipolar junction transistors, field effect transistors. Integrated circuits will be introduced. Circuit applications will include rectifiers, transistors, switching circuits, and linear amplifiers. Course Level Fee 1 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

EET 053▼
A+ Technician Preparation

Prerequisite: EET 060

Preparation for the Computing Technology Industry Association A+ Operating Systems. This course is designed to cover the Operating System Component of the A+ Exam. Some of the topics discussed are Operating Systems, System Administration Tools, Network Management, and System Maintenance. (Repeatable 2 times) Course Level Fee 2 (2 Credits, 2 Lecture)

EET 055
Cabling Install W/Fiber Optics

Corequisite: EET 040 or consent of instructor

This course is designed to provide entry level cabling installers with the background, knowledge, and basic skills necessary to complete cabling installations. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

EET 056
Electronic Design and Fabrication

Designed to present through actual practice the elements of electronics drafting and fabrication. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

EET 057
Computer Systems Architecture

Prerequisite: EET 076

This course is designed to provide a technical foundation for system design, systems implementation, hardware and software

procurement, and computing resource management. (3 Credits, 3 Lecture)

EET 060
Computer Hardware

This course is designed to teach the fundamentals of computer hardware and give students hands on experience in assembling, upgrading and troubleshooting basic computer systems and hardware. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

EET 061▼
Advanced Computer Hardware

Prerequisite: EET 060 or consent of instructor

This course is designed to teach advanced concepts and architectural design of computer hardware. Students will examine and analyze the major PC components, study the different standards and platforms available and experiment with custom PC and peripheral additions and modifications. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

EET 062
Cabling/Fiber-Optics & Lan Sys

Prerequisite: EET 050

When a student completes this course that student should have a good understanding of; various connectors and copper cable systems used in the industry, blue print symbols and tools associated with networks and cabling, basic network topologies, fiber-optics, wireless networks. Course Level Fee 1 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

EET 063▼
Industrial Computer Systems

Fundamentals of programming for industry, with emphasis in problem-solving industrial applications. Writing and modifying programs with industrial applications are completed. Connectivity using micro-controllers and interface logic boards are also demonstrated. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

EET 064
A+ Computer Essentials

Prerequisite: EET 060 and CIS 079 or consent of instructor

Preparation for the Computing Technology Industry Association A+ test. This course is designed to cover both the Core and DOS/Windows modules. Some of the topics discussed are installation, upgrading, troubleshooting, hardware, networks, and DOS, Windows 3.X, and Windows 95. (2 Credits, 2 Lecture)

EET 065▼
Home Technology Integration

Corequisite: EET 040 or consent of instructor

This course is designed for students interested in the field of home technology integration. Focuses on background knowledge and hands-on skills to prepare for the CompTIA DHTI+ Exam. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 2 Lecture, 2 Lab/ Lab-Discussion)

EET 066
Network Pro

Prerequisite: EET 060 and CIS 081 or consent of instructor

This course covers material needed to pass the Computing Technology Industry Association Net+ and Electronics Technicians Association CNST exam. Topics include an in-depth look at data transmission and covers basic telephony, LAN, Satellites, modems, error control and data security. (4 Credits, 4 Lecture)

EET 067
Computer Servicing Techniques

Prerequisite: EET 060

This lab is dedicated to advanced configuration and trouble shooting and is designed to simulate problems in home or business computers. Student will be given a description of the problem from an operators viewpoint and will correct the problems encountered. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

EET 068▼
Photovoltaic Systems

Prerequisite: EET 040 and EET 050

This course is designed to provide a technical foundation for design, installation, and evaluation of residential and commercial photovoltaic systems. Concepts of system advantages and disadvantages, site evaluation, system design and sizing are assessed. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

EET 069▼
Residential Wiring I

This course provides students with an understanding of residential wiring. Topics include safety, planning, and installation of residential wiring systems according to the National Electrical Code®. (Repeatable 3 times) Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

EET 070▼
Photovoltaic Technician

Prerequisite: EET 068

This course is designed to provide a technical foundation for system design, systems implementation, electrical codes, and hardware installation. Maintaining and troubleshooting systems are performed. (Repeatable 3 times) Course Level Fee 3 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

EET 071
Routing & Switching Fundamentals

Prerequisite: EET 050 and EET 056 and EET 076

Provides the student with practical skills needed to configure and connect routers and switches. It also discusses trunking, access list, and WANS. Connectivity to other electronic controls systems. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

EET 072
Industrial Control I

This course provides the student with an understanding of industrial electrical and electronic power systems. Topics covered include three phase circuits, motors wiring, ladder logic, transformers, and electronical motor controllers. Course Level Fee 1 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

EET 074▼
Supervised Occupational Experience

Prerequisite: Sophomore standing in Electronics

Designed to provide the student with work experience in field while maintaining contact with the occupational instructor for review and assistance. (Repeatable 1 Time) (Variable Credit 0.5/5 Credits, 25 Lab/Lab-Discussion)

EET 075
HMI-Human Machine Interface

Prerequisite: EET 086 or consent of instructor

This course covers basic HMI operation and programming using Wonderware - InTouch software. Topics include: Designing HMI windows, interfacing to the PLC, basic animation, using and creating logic scripts, using DDE, setting alarms, charts and trending, and security. Course Level Fee 1 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

EET 076
Digital Logic

The study of digital systems principles and techniques. Binary, Hexidecimal, BCD, logic theory, AND,OR, NOT, NAND, and NOR gates as well as combination gate, Flip Flops and hardware are covered. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

EET 077▼
PC Pro

Prerequisite: EET 060 or consent of instructor

This course prepares students for the TESTOUT PC Pro exam and the Computing Technology Industry Association A+ Exams. (4 Credits, 4 Lecture)

EET 078
Linear Electronics

Prerequisite: EET 052

A study of linear electronic circuits. Combines theory of passive and active circuits into operational units. Topics include amplifiers frequency response, feedback, oscillators, high frequency, operational and instrumentation amplifiers, linear and switching regulators. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

EET 079
R.F. Communication Licensing

Prerequisite: EET 046 or concurrent entollment in EET 080

Corequisite: EET-080 and EET-047

Preparation for NABER, NARTE, SBE and F.C. - General Radiotelephone License tests. Radio low, R.C.C. rules and regulations related to licensing and review of basic electronics and radio theory pertinent to tests. (1 Credits, 1 Lecture)

EET 080
R.F. Communications

Prerequisite: EET 078

The study of electronic communication components and systems. AM, FM Single Side Band, commercial broadcasting and digital transmitters and receivers as found in two-way radio are studied. Transmission lines, electromagnetic fields and antennas are included. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

EET 081
Microcontroller Applications

Prerequisite: EET 076

Principles of micro controllers. Topics include: Flow charting, Input-output devices and interfacing, Signal conditioning, Programming, and basic process control using a micro controller. Class stresses using the micro controllers to control I/O devices. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/ Lab-Discussion)

EET 085▼
Electronic Projects

Corequisite: Take EET-080 and EET-081

Prerequisite: EET-076, EET-078, EET-081

Instructor approved and student selected electronic project providing experience in design, fabrication and testing of an electronic unit. The project should coincide with student's occupational goal and area of electronic work interest. (Communications, computers, industrial, etc.) (Repeatable 3 times) Course Level Fee 1 (2 Credits, 1 Lecture, 3 Lab/Lab-Discussion)

EET 086
Prog Logic Controllers I

Prerequisite: EET-072 or consent of instructor

This course covers basic PLC operation and programming using Rslogix500 software and Allen Bradley PLC's. Topics include: Basic ladder design, Input Output, Timers, Counters, Batch Processes, Shift registers, Word compare, and Math. Course Level Fee 1 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

EET 087
Prog Logic Controllers II

Prerequisite: EET 086 or consent of instructor

This course covers advanced topics of the Micrologix 1000 PLC operation and programming using Rslogix500 software and Allen Bradley PLC's. Topics include Analog I/O, Math and Data handling instruction, program flow, message instructions, and communication protocols. Course Level Fee 1 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

EET 094
Supervised Occupational Exp

Prerequisite: Sophomore standing in Electronics or consent of instructor

Designed to provide the student with work experience in the field of major while maintaining contact with the instructor for review and assistance. (3 Credits, 15 Lab/ Lab-Discussion)

EMERGENCY MEDICAL SERVICES (EMS---) AND (EMT---)

EMS 050▼
Emergency Medical Tech-Basic

Prerequisite: At least 18 years of age, high school diploma or GED and a current Healthcare Provider, or CPR card.

Immunizations: Hep B., TB, DT/Tetanus, MMR if you have immunizations, a copy of what you have is acceptable, physical exam, copy of current Driver's License or State I.D., Background check ($30 to EMS Office cash or money order), screening at Sarah Bush Occupational Health. Provides the student with an understanding of his/her roles and responsibilities within the EMS system, including operations, patient assessment, and emergency medical care. Students successfully completing this course will be eligible to take the EMT-Basic licensing examination. (Repeatable 3 times) Course Level Fee 2 (6 Credits, 6.5 Lecture, 2 Lab/Lab-Discussion)

EMS 055▼
Introduction to First Response

Introduction to First Response provides an introduction to the basic knowledge and skills necessary for emergency medical training. This course is designed for persons who are first on the scene of an injury or medical illness. (Repeatable 3 times) (3 Credits, 3 Lecture)

EMS 056▼
Paramedical Services I

Prerequisite: Admission into program, current EMT B or EMT I license and BIO 050 or BIO 225

Provides the paramedic student with an understanding of his/her roles and responsibilities within the EMS system including safety, medical-legal issues, EMS operations, and specialized scene responses. (Repeatable 3 times) (6 Credits, 4 Lecture, 4 Lab/Lab-Discussion)

EMS 057▼
Paramedical Services II

Prerequisite: EMS 056 and EMS 065

Provides the paramedic student with the knowledge and skills to integrate the principles of kinetics, pathophysiology, and assessment findings to formulate a field impression and implement a treatment plan for the trauma patient. (Repeatable 3 times) (9 Credits, 6 Lecture, 6 Lab/Lab-Discussion)

EMS 058▼
Paramedical Services III

Prerequisite: EMS 056 EMS 057 EMS 065

Provides the paramedic student with the knowledge and skills to integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for the medical patient. (Repeatable 3 times) (10 Credits, 6 Lecture, 8 Lab/Lab-Discussion)

EMS 059▼
Paramedical Services IV

Prerequisite: EMS 056 EMS 057 EMS 058 EMS 062 AND EMS 065

Provides the paramedic student with the knowledge and skills to integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan for the medical, obstetric, pediatric, geriatric, or other special patients. (Repeatable 3 times) Course Level Fee 4 (10 Credits, 6 Lecture, 8 Lab/Lab-Discussion)

EMS 062▼
EMS Pharmacology

Prerequisite: EMS 056 EMS 057 and EMS 065

Provides the paramedic student with the knowledge and skills to integrate pathophysiological principles of pharmacology and the assessment findings to formulate a field impression and implement a pharmacologic management plan. (Repeatable 3 times) (2 Credits, 2 Lecture)

EMS 065▼
Paramedic Skills I

Prerequisite: Current EMT b or EMT I license and BIO 050 or BIO 225

Corequisite: EMS-056

Provides the paramedic student with the skills needed for patient assessment and medical history; airway management and ventilation; clinical decision making; communications; and documentation. (Repeatable 3 times) (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

EMS 066▼
Paramedic Skills II

Prerequisite: EMS 056 EMS 057 EMS 058 EMS 062 EMS 065

Provides the paramedic student with the skills needed to integrate pathophysiological principles and assessment findings to formulate a field impression and implement a treatment plan. (Repeatable 3 times) (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

EMS 070▼
First Responder

Provides basic emergency medical training to those persons who might be first on the scene of an injury or medical illness. (Repeatable 3 times) Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

EMS 091
Public Safety Telecommunicator###

This course provides students with information and practical skills pertaining to the functions required to perform tasks in the Public Safety Telecommunications/ 911 Dispatch Profession. (3 Credits, 2.5 Lecture, 1 Lab/Lab-Discussion)

Pending ICCB approval.

EMERGENCY MEDICAL TECH (EMT---)

EMT 012▼
Special Topics in EMS

Provide the students with information and/or practical skills pertaining to the functions required in the manner in which they perform their jobs in the Emergency Medical Services profession. (Repeatable 3 times) (Variable Credit 0.5/2.5 Credits, 2.5 Lecture)

EMT 013▼
Special Topics in EMS II

Provide the students with information and/or practical skills pertaining to the functions required in the manner in which they perform their jobs in the Emergency Medical Services profession. (Repeatable 3 times) Course Level Fee 3 (Variable Credit 0.5/2.5 Credits, 2.5 Lecture)

ENGLISH (ENG---)

ENG 005▼
Foundations in Composition

This course enables students to upgrade writing skills through a concentration on grammar and sentence structure. Areas included are parts of speech, parts of sentence

and punctuation. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 3 Lecture)

ENG 007▼
Composition Skills

Prerequisite: Must assess into ENG 007 or take ENG 005 with a minimum grade of "C".

Students will review the basics of spelling, grammar, and the components of the short essay. Students will, by the end of the term, produce thoroughly revised essays that are free of all major grammar and readability errors. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 3 Lecture)

ENG 050
Writing for Industry

Students will learn strategies for writing essays, instructions manuals, proposals, reports, career documents as well as deliver oral presentations to prepare them for a profession in industry. Students will practice research strategies by using library resources and the Internet. Course Level Fee 2 (3 Credits, 3 Lecture)

ENG 095
Business English

Using critical thinking skills, students will study and reinforce the basics of the English language as they apply to business communications. Emphasis is placed on grammar, punctuation, spelling, word usage, and sentence structure. Course Level Fee 2 (3 Credits, 3 Lecture)

ENG 098
Communications I

Students will learn the principles of communications by listening, speaking, and writing. Emphasis is placed on communication skills related to the demands of the student's career area. Course Level Fee 2 (3 Credits, 3 Lecture)

ENG 099
Communications II

Prerequisite: ENG 098

Students will continue to enrich the listening, speaking, and writing skills introduced in Communications I. Emphasis is placed on research, report writing, and communication skills for the upwardly mobile career student. Course Level Fee 2 (2 Credits, 2 Lecture)

ENG 110
Manual Comm-Deaf

Instruction in methods of communication with the deaf through signing. (3 Credits, 3 Lecture)

ENG 111
Advanced Signing

Prerequisite: ENG 110

A continuation of Manual Communication for the Deaf. Advanced vocabulary and signing. (3 Credits, 3 Lecture)

ENG 112
Conversational Sign Language

Prerequisite: ENG 111

This course prepares students for signing conversations and stories with a focus on building narrative skills, moving from an informal setting to a more formal presentation by incorporating American Sign Language structure and grammar and exposure to deaf culture. (3 Credits, 3 Lecture)

ENG 120
Composition I

IAI C1 900

Prerequisite: Must assess into ENG-120 or take ENG-007 with minimum grade of "C".

Students will study the writing process by reading essays that illustrate a variety of rhetorical strategies, analyzing writing tasks and texts, and writing, revising, and editing short essays. Course Level Fee 2 (3 Credits, 3 Lecture)

ENG 121
Composition II

IAI C1 901R

Prerequisite: Complete ENG-120 with a minimum grade of "C".

Students will learn how to find, use, assess and document research sources, producing an extended writing project based primarily on library research. Course Level Fee 2 (3 Credits, 3 Lecture)

ENG 223
Creative Writing - Fiction

Prerequisite: ENG 120 and ENG 121 advised

Students will understand the structure and elements of fiction and the writing process, produce fully-developed works of fiction, and demonstrate an understanding of the critical terminology of the creative writer. Course Level Fee 1 (3 Credits, 3 Lecture)

ENG 224
Creative Writing - Poetry

Prerequisite: ENG 120

Students will understand the structure and elements of poetry and the writing process, produce fully developed works of poetry and demonstrate an understanding of the critical terminology of the creative writer. (3 Credits, 3 Lecture)

ENGLISH AS A SECOND LANGUAGE (ESL---)

ESL 014▼
ESL-Entry Level I

Prerequisites: Placement is based on formal and informal assessment.

(Repeatable 3 Times)(Variable Credit 0.5/4 credits, 4 Lecture)

ESL 015▼
ESL-Entry Level II

Prerequisites: Placement is based on formal and informal assessment.

(Repeatable 3 Times) (Variable Credit 0.5/4 credits, 4 Lecture)

ESL 016▼
ESL-Entry Level III

Prerequisites: Placement is based on formal and informal assessment.

(Repeatable 3 Times) (Variable Credit 0.5/4 credits, 4 Lecture)

ESL 017▼
ESL-Intermediate Level I

Prerequisites: Placement is based on formal and informal assessment.

(Repeatable 3 Times) (Variable Credit 0.5/4 credits, 4 Lecture)

ESL 018▼
ESL-Intermediate Level II

Prerequisites: Placement is based on formal and informal assessment.

(Repeatable 3 Times) Variable Credit 0.5/4 credits, 4 Lecture)

ESL 019▼
ESL-Intermediate Level III

Prerequisites: Placement is based on formal and informal assessment.

(Repeatable 3 Times) (Variable Credit 0.5/4 credits, 4 Lecture)

ESL 020▼
ESL-Advanced Level I

Prerequisites: Placement is based on formal and informal assessment.

(Repeatable 3 Times) (Variable Credit 0.5/4 credits, 4 Lecture)

ESL 021▼
ESL-Advanced Level II

Prerequisites: Placement is based on formal and informal assessment.

(Repeatable 3 Times) (Variable Credit 0.5/4 credits, 4 Lecture)

ESL 022▼
ESL-Advanced Level III

Prerequisites: Placement is based on formal and informal assessment.

(Repeatable 3 Times) (Variable Credit 0.5/4 credits, 4 Lecture)

ESTHETICS (EST---)

EST 041
Esthetics I

Introduction to the principles and applications of basic skin care. The student is introduced to the history of skin care, professional ethics, sanitation, anatomy and physiology, and cosmetic chemistry. Course Level Fee 3 (6.5 Credits, 5 Lecture, 4.5 Lab/Lab-Discussion)

EST 042
Esthetics II

Prerequisite: EST 041

Focuses on histology of the skin, disorders and diseases, skin analysis, correct product selection and treatment room preparation. Course Level Fee 3 (6.5 Credits, 5 Lecture, 4.5 Lab/Lab-Discussion)

EST 043
Esthetics III

Prerequisite: EST 041 and EST 042

This course is designed to introduce the esthetician to facial massage techniques, hair removal, make-up application, basic facials and other skin treatments. Course Level Fee 3 (6 Credits, 5 Lecture, 5 Lab/Lab-Discussion)

EST 044
Esthetics IV

Prerequisite: EST 041 and EST 042 and EST 043

Focuses on the basics of electricity, light therapy, implements and electrical current used with facial machines and microdermabrasion. Course Level Fee 3 (6 Credits, 5 Lecture, 5 Lab/Lab-Discussion)

EST 045
Esthetics V

Prerequisite: EST 041 and EST 042 and EST 043 and EST 044

Continuation of Esthetics IV. Concentrated toward advanced esthetics, salon/spa business, retailing products and career planning. Course Level Fee 3 (6 Credits, 5 Lecture, 5 Lab/Lab-Discussion)

FIRE SCIENCE TECHNOLOGY (FST---)

FST 012▼
Special Topics - Fire Service Trends

Provide the students with information and/or practical skills pertaining to the functions required in the manner in which they perform their jobs in the Fire/ Emergency Services profession. (Repeatable 3 times) (3 Credits, 3 Lecture)

FST 040
Fire Behavior and Combustion

Explores the theories and fundamentals of how and why fires start, spread, and how they are controlled. (3 Credits, 3 Lecture)

FST 041
Principles of Emergency Services

Provides an overview to fire protection; including career opportunities; philosophy and history of fire protection/service; fire loss analysis; organization and function of private fire protection services; laws and regulations affecting the fire service; and fire service nomenclature. (3 Credits, 3 Lecture)

FST 042
Occupational Safety and Health

Introduces basic concepts of risk evaluation, control procedures, EMS, hazardous materials, and technical rescue for fire stations, training sites, emergency vehicles and emergency situations involving fire. (3 Credits, 3 Lecture)

FST 043
Building Construction

Provides the components of building construction that relate to fire and life safety with focus on firefighter safety. Elements of construction and design of structures are key factors when inspecting buildings, preplanning fire operations, and operating at emergencies. (3 Credits, 3 Lecture)

FST 044
Fire Prevention

Provides use of fire codes, identification and correction of fire hazards, and the relationships of fire prevention with built-in fire protection systems, fire investigation, and fire and life-safety education. (3 Credits, 3 Lecture)

FST 045
Fire Investigation I

Prerequisite: FST 040 and FST 041 and FST 043

Provide the fundamentals and technical knowledge needed for proper fire scene interpretations, including recognizing and conducting origin and cause, preservation of evidence and documentation, scene security, motives of the fire setter, and types of fire causes. (3 Credits, 3 Lecture)

FST 046▼
Fire Service Safety & Survival

This course will provide basic principles and history related to the National Fire Life Safety Initiatives, focusing on cultural and behavioral change. Course Level Fee 4 (3 Credits, 3 Lecture)

FST 070
Fire Protection Systems

Provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection and portable fire extinguishers. (3 Credits, 3 Lecture)

FST 071
FST Hydraulics and Water Supply

Prequisite: FST 041

Provides a foundation of theoretical knowledge in order to understand the principles of the use of water in fire protection and to apply hydraulic principles to analyze and to solve water supply problems. (3 Credits, 3 Lecture)

FST 072
Legal Aspects of the Fire Service

Introduces the federal, state and local laws that regulate emergency services, national standards influencing emergency services, standard of care, tort, liability, and a review of relevant court cases. (3 Credits, 3 Lecture)

FST 073
Fire Administration I

Prerequisite: FST 041

Provides student with education in fire science organization and management, administrative procedures and methods, budgeting, control of resources, and the maintenance of records. Discusses managerial attitudes and decisions, general organizational planning and career development. (3 Credits, 3 Lecture)

FST 074
Fire Investigation II

Prerequisite: FST 045

Provides advanced technical knowledge on rule of law, fire scene analysis, fire behavior, evidence collection and preservation, scene documentation, case preparation and testifying. (3 Credits, 3 Lecture)

FOREIGN LANGUAGE (FLG---)

FLG 130
Elem French I

Focuses on principles of grammar, phonetics, pronunciation and drill in rhythm and intonation.Reading of simple French text and conversation. (3 Credits, 3 Lecture)

FLG 131
Elem French II

Prerequisite: FLG 130

Continued emphasis on grammar, phonetics, and pronunciation with exercises in speaking, reading of simple French text and conversation. (3 Credits, 3 Lecture)

FLG 140
Elem Spanish I

Fundamentals of Spanish grammar, oral communication, reading and writing and introduction to cultures of various Spanish speaking countries. (3 Credits, 3 Lecture)

FLG 141
Elem Spanish II

Prerequisite: FLG 140

Continued study of basic grammar, oral communication, reading and writing. Includes cultural aspects of various Spanish speaking countries. (3 Credits, 3 Lecture)

FLG 150
Beginning German I

This course is an introduction to the basic concepts of the German language. It focuses on the fundamentals of German grammar, pronunciation, phonetics, drill in rhythm and intonation, reading, writing as well as an introduction to German culture. (3 Credits, 3 Lecture)

FLG 151
Beginning German II

Prerequisite: FLG 150

This course is a continuation of Beginning German, building upon the basic language concepts. It expands abilities in the fundamentals of German grammar, pronunciation, phonetics, drill in rhythm and intonation, reading, writing as well as an introduction to German culture. (3 Credits, 3 Lecture)

FLG 230
2nd Year French I

Prerequisite: FLG 131

Grammar and exercises in composition, conversation and reading. Reading of advanced literacy works. (3 Credits, 3 Lecture)

FLG 231
2nd Year French II

Grammar and exercise in composition, conversation and reading. Readings of advanced literary works. (3 Credits, 3 Lecture)

FLG 240
2nd Year Spanish I

Prerequisite: FLG 141

Will further comprehension of grammar, conversation and composition. Study of Spanish cultures through reading and discussion of selected literary works. (3 Credits, 3 Lecture)

FLG 241
Second Year Spanish II

Prerequisite: FLG 240

Study of advanced grammar, composition and conversation. Reading and discussion of selected literary works and cultural orientation. (3 Credits, 3 Lecture)

FLG 251
Intermediate German I

Prerequisite: FLG 151

This course is designed for students to expand and deepen their knowledge of German grammar, pronunciation, phonetics, rhythm and intonation, reading, writing and German culture. Instruction will emphasize the four modes of expression as well as culture. (3 Credits, 3 Lecture)

FLG 252
German Conversation II

Prerequisite: FLG 251

This course is designed for students to continue to expand and deepen their knowledge of German grammar, pronunciation, phonetics, rhythm and intonation, reading, writing and German culture. Instruction will emphasize the four modes of expression as well as culture. (2 Credits, 2 Lecture)

GEOGRAPHY (GEO---)

GEO 140
World Geography
IAI S4 900N

This course is about the world's great realms, surveyed and discussed in geographic perspective. It links human society and culture to the world's natural environment and climates. (3 Credits, 3 Lecture)

GEOSPATIAL INFORMATION SYSTEMS (GIS---)

GIS 090
Introduction to Geospatial Technology

This course provides an in depth introduction to the fundamentals of Geographic Information Systems (GIS) including the history of automated mapping. The course will include an introduction to basic GIS concepts associated with database development, editing, and map-making. Course Level Fee 4 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

GIS 091
Advanced GIS

This course provides an introduction to advanced applications of Geographic Information Systems (GIS) using ArcView and ArcInfo. Focus will be placed on technician level issues associated with data capture and associated quality control Issues associated with developing accurate information. Course Level Fee 1 (3 Credits, 1.5 Lecture, 3 Lab/ Lab-Discussion)

GIS 095
Geospatial Technology Internship

Prerequisite: GIS-090 and GIS-091

A directed field study program whereby students will apply classroom instruction to real-world Geographic Information Systems (GIS) projects in the community. Students should complete GIS-090 and GIS-091 and arrange for an advisor prior to enrolling in an internship. Course Level Fee 1 (3 Credits, 15 Lab/Lab-Discussion)

HEALTH EDUCATION (HED---)

HED 046
Food Service Sanitation

This course covers the principles of food microbiology, sources, and types of foodborne illness, personal hygiene, and all other rules and regulations for the safe handling of food. (Variable Credit 0.5/2 Credits, 2 Lecture)

HED 102
Nutrition

A course in nutritional education including: food groups, diet goals, energy nutrients, digestion, absorption and metabolism. Water, vitamins, and minerals will be studied. Diet analysis and disease of digestion will be covered. (3 Credits, 3 Lecture)

HED 177
First Aid Review

Prerequisite: HED 178 or HED 179 or CPR card

A review of the latest methods used in cardiopulmonary resuscitation. A renewed CPR card will be given at the successful completion of the course. (0.5 Credits, 0.5 Lecture)

HED 178
Responding to Emergencies

The purpose of the American Red Cross Responding to Emergency course is to provide the citizen responder with the knowledge and skills necessary in an emergency to help sustain life. Course Level Fee 3 (2 Credits, 2 Lecture)

HED 179
Advanced 1st Aid and CPR

Studies all phases of advanced first aid and safety. Also includes Cardiopulmonary resuscitation (CPR). Students receive an Advanced First Aid card and a CPR card with the successful completion of the course. Course Level Fee 3 (3 Credits, 3 Lecture)

HED 200
Principles of Health

This course is designed to explore the most important health issues current and past. Helping students to make responsible decisions that will affect them throughout their life. Focus will be on interrelating behavior with one's own health decisions. (3 Credits, 3 Lecture)

HED 270
Community Health

A study of public health, school health, occupational health, social and recreational services and self-care. (3 Credits, 3 Lecture)

HED 290
Disease Processes

Prerequisite: BIO 100

The course details with the epidemiology of the major communicable diseases and the causative factors of the degenerative diseases. Historical aspects of diseases are studied. The system of human immunity is the second unit covered. (2 Credits, 2 Lecture)

HEAT VENT AIR COND REFG (HVC---)

HVC 060
HVACR Blueprint Reading

This course prepares students to read and interpret blueprints for heating, ventilation, air conditioning and refrigeration systems. Students learn how to employ proper drafting techniques to develop a set of plans and prepare an estimate of cost for a project. Course Level Fee 1 (4 Credits, 2 Lecture, 4 Lab/Lab-Discussion)

HVC 062
Intro to HVACR Electricity

This course covers principles of electricity as used in the HVACR industry including circuits, electrical theory and schematic interpretation. Students learn to use hand tools and test equipment. Safety and application of math skills are stressed. Employability skills are introduced. Course Level Fee 1 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

HVC 064
Refrigeration I

This course covers the basic refrigeration cycle, as well as refrigeration components and types of refrigerants. Students work with tools and gauges, measure temperatures and pressures and practice refrigeration safety procedures. Course Level Fee 1 (3 Credits, 1.5 Lecture, 3 Lab/Lab-Discussion)

HVC 066
Refrigeration II

This course covers compressors, valves, and metering devices. The course also covers domestic refrigerator and freezer systems. The student will gain hands on training installation, trouble shooting, service, and repair of domestic refrigerators. Reclaiming procedures are covered. Course Level Fee 1 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

HVC 068
Air Conditioning I

This course covers various types of air conditioning systems and their components. Humidification, dehumidification, and air filtration and heat pump operation are covered, as well as installation procedures for each type of system. Course Level Fee 1 (4 Credits, 2 Lecture, 4 Lab/Lab-Discussion)

HVC 070
Air Conditioning II

In this course students learn to design and troubleshoot various types of air conditioning systems. Heat Load and heat loss calculations are made and HVACR job search skills are stressed. Course Level Fee 1 (4 Credits, 1 Lecture, 6 Lab/Lab- Discussion)

HVC 072
Heat Generating Systems
This course covers principles of working with LP and natural gas. Procedures for installing and troubleshooting gas, oil and electric furnaces are covered. Safety and leak testing are stressed. Course Level Fee 1 (3 Credits, 1 Lecture, 4 Lab/Lab- Discussion)

HVC 074
Pipe & Ductwork Installation
This course covers ductwork fabrication and installation. An introduction to fabrication practices and procedures, layout, and heating and refrigeration piping is provided. Safety practices are stressed. Course Level Fee 1 (4 Credits, 1 Lecture, 6 Lab/Lab-Discussion)

HISTORY (HIS---)

HIS 150
History of Illinois
Describe Indian cultures, French rule, and problems of early statehood; assess patterns of settlement; describe impact of Civil War and trace the economic transition to an industrial power; assess 20th Century changes and current states problems. (3 Credits, 3 Lecture)

HIS 153
History/Culture of Third World
IAI H2 903N
The course will introduce the student to history and culture in the third world from ancient civilizations to the modern era. This course will focus upon broad themes in history and culture and will examine those themes in each major Historical era. (3 Credits, 3 Lecture)

HIS 155
History of the U.S. I
IAI S2 900
A survey of early American history viewed with an emphasis on the political, social, economic, and ideological foundations of the Republic. Major topics include colonialism, revolution, federalism, nationalism, sectionalism, expansion, slavery, religion, Civil War. (3 Credits, 3 Lecture)

HIS 156
History of the U.S. II IAI S2 901
Views U.S. History since the end of Reconstruction with emphasis on how the domestic and international conflicts helped shape our modern society. (3 Credits, 3 Lecture)

HIS 250
Western Civil to 1660
IAI H2 901
A survey of the political, economic, cultural and social development of Western Civilization to 1660. Topics include prehistory, ancient near east, Greco-Roman world, Germanic migrations, middle ages, Renaissance and Reformation, and the beginnings of the Modern World. (3 Credits, 3 Lecture)

HIS 252
West Civil/1660-Present
IAI H2 902
Survey of Western Civilization with topics including absolutism, the rise of modern science, the French Revolution, the Industrial Revolution, the Age of Ideology, Imperialism, the Russian Revolutions, World War I, the Rise of Totalitarianism, World War II and the Contemporary Age. (3 Credits, 3 Lecture)

HORTICULTURE (HRT---)

HRT 061
Woody Plants Identification
A study in the identification of deciduous trees and shrubs used primarily in landscaping. Emphasis is placed on cultural requirements of the plants, their natural habitat, and plant usage. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

HRT 063
Evergreen/Vines & Ground Cover
A study in the identification, selection, use, propagation, and cultural requirements of woody and herbaceous ground covers, vines, needled evergreens, and broad-leaved evergreen plants. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

HRT 066
Turf Management
Methods of establishment and maintenance of turfgrass for lawns, public grounds, and recreational areas. Also includes the identification and management of plant and soil materials in different environments. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/ Lab-Discussion)

HRT 071
Herbaceous Landscape Plants
A study in the identification, selection, and use of herbaceous plants primarily used in the landscape, including perennials, biennials, ornamental grasses, wildflowers and specialty annuals. Emphasis is placed on cultural requirements of the plants, propagation, and plant usage. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

HRT 072
Herbaceous Landscape Plants II
Covers the identification and use of flowering (bedding) annuals, specialty annuals, and tropical plants used for outdoor displays. Improvement in selection, changes in marketing and branding, and new trends are discussed. Emphasis is placed on use in the Illinois landscape. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

HRT 076
Greenhouse Mgt and Production
A study of the commercial production of floricultural crops, including greenhouse construction, management and operation. Attention will be given to the production of better plants through the study of temperature, light, soil, nutrition, scheduling, propagation methods, and plant breeding. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

HRT 081
Landscape Design
This class will cover the basic principles of landscape design, methods and techniques of the landscape design process for residential and commercial settings, including an appreciation of various landscape theories and objectives, art in landscape design, and special landscape problems. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

HRT 082
Landscape Construction & Maint
Students will learn construction methods for residential and small commercial landscapes; selection and installation of plants; techniques and uses of materials related to various landscape features; prepare cost estimates; control of landscape diseases and pests; and maintenance of landscape areas. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

HRT 083
Landscape Design II-Layout/Graphics
This course reviews the design processes and techniques as they apply to residential landscape designs and integrates them into landscape projects. Course will include pen and ink graphic design techniques, freehand sketching, preparing quick designs, perspective sketching, and color drawing. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

HRT 091
Supervised Occupational Experience I
This course provides introductory on the job experience as a full-time employee in selected horticulture production or landscaping. Course Level Fee 3 (3.5 Credits, 0 Lecture, 17.5 Lab/ Lab-Discussion)

HRT 092
Supervised Occupational Experience II
This course provides intermediate level on the job experience as a full-time employee in selected horticulture production or landscaping occupation. Course Level Fee 3 (2.5 Credits, 0 Lecture, 12.5 Lab/Lab-Discussion)

HRT 093
Supervised Occupational Experience III
This course provides advanced on the job experience as a full-time employee in selected horticulture production or landscaping occupation. Course Level Fee 3 (3 Credits, 0 Lecture, 15 Lab/Lab-Discussion)

HRT 201
Introduction to Horticulture
IAI AG 905
A study and introduction to the principles and practices involved in the development, production, and use of horticultural crops (fruits, vegetables, greenhouse, turf, nursery, floral, and landscape). Course will include a broad overview of the green industry including propagation, production and design. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/ Lab-Discussion)

HUMAN SERVICES (HSP---)

HSP 053
Work Experience Seminar I
This course accompanies the field experience class. These seminars give opportunity to provide individual assessment and assist with job competence. (1 Credits, 1 Lecture)

HSP 054
Field Experience I
This course provides 150 hours of supervised employment in various human service agencies. Course Level Fee 3 (2 Credits, 10 Lab/Lab-Discussion)

HSP 055
Work Experience Seminar II
Prerequisite: HSP 053 and HSP 054
This course accompanies the field experience class. Seminars give opportunity to provide individual assessment and assist with job competence. (1 Credits, 1 Lecture)

HSP 056
Field Experience II
Prerequisite: HSP 053 and HSP 054
This course provides 150 hours of supervised employment in various human service agencies. Course Level Fee 3 (2 Credits, 10 Lab/Lab-Discussion)

HSP 057
Work Experience Seminar III
Prerequisite: HSP 055 and HSP 056
This course accompanies the field experience class. These seminars give opportunity to provide individual assessment and assist with job competence. (1 Credits, 1 Lecture)

HSP 058
Field Experience III
Prerequisite: HSP 055 and HSP 056
This course provides 150 hours of supervised employment in various human service agencies. Course Level Fee 3 (2 Credits, 10 Lab/Lab-Discussion)

HSP 061▼
Psychiatric Rehab Skills
Designed to teach students basic interviewing skills, how to implement skills training for behaviors such as medication management, basic conversation, and symptom management. Focus is on a multidimensional view of wellness useful for psychiatric settings. (Repeatable 3 times) (3 Credits, 3 Lecture)

HSP 065
Intro to Substance Abuse
This course encompasses social, psychological, and medical views of drug use. The historical evolution of drug use and regulation, the differences between drug use, misuse, and abuse and their consequences. (3 Credits, 3 Lecture)

HSP 101
Dynamics of Domestic Violence
Study of dynamics of Domestic Violence, focusing on program philosophy, cultural diversity, direct relation of substance abuse, crisis intervention, understand IL Domestic Violence Act, criminal aspects, battering treatment & how Domestic Violence affects children & our society. (3 Credits, 3 Lecture)

HSP 102
Behavior Management
This course introduces the learning principles of behavior modification, measurement and strategies to change human behaviors in educational and clinical settings. (3 Credits, 3 Lecture)

HSP 103
Foundations of Human Services
Foundations in the discipline of human services, including: Historical origins, ethics and values, skill development, roles of the profession, career opportunities, challenges, examination of diverse and at-risk populations, and policy issues in human services. (3 Credits, 3 Lecture)

HSP 120
Introduction to Social Work
An introduction to generalist practice: Historical origins, values and ethics, practice methods, research considerations, and policy issues in social work. Examination of diverse and at-risk populations; the wide variety of problems workers confront, knowledge and skills of the worker. (3 Credits, 3 Lecture)

HSP 122
Social Welfare
A study of the history, purpose, philosophy, methods and values governing social welfare, with an overview of the American social welfare system, programs and structure of service delivery. Examination of the relationships among social welfare systems and institutional structures. (3 Credits, 3 Lecture)

HUMANITIES (HUM---)

HUM 120
Myths and Legends
IAI H9 901
Prerequisite: ENG 120; minimum grade of "C"
An introduction to major myths and legends spanning from Ancient Greece to Modern America with an emphasis on how the motifs, archetypes, and themes are consistently revived in popular culture. (3 Credits, 3 Lecture)

HUM 150
Humanities Through the Arts
IAI HF 900
Students will survey the human condition as revealed through the arts, including an examination of painting, sculpture, architecture, literature, drama, film, photography, and music. (3 Credits, 3 Lecture)

HUM 151
Nature in the Humanities
IAI H9 900
Prerequisite: ENG 120 with a minimum grade of 'C'
An interdisciplinary study of literary, philosophical and historical relationships between the natural environment and the human condition. Focus will be placed on the appreciation of nature and its effect on human endeavor. (3 Credits, 3 Lecture)

HUM 181
Intro to Film Appreciation
IAI F2 908
Students will enrich their knowledge of film art and their abilities to critically analyze and evaluate films. By viewing and discussing a variety of films, students will understand film techniques, directorial styles, genres, structure, critical approaches, and cultural influences. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

INDEPENDENT STUDY (INS---)

INS 099
Portfolio Develop
Students will analyze and evaluate their learning, skills, and talents in order to develop a portfolio consisting of transcripts, tests, training programs, workshops which can be evaluated for college credit. In preparing portfolio, students will clarify educational, career, and personal objectives. (2 Credits, 2 Lecture)

INS 200▼
Internship/Cooperative Education
This course is a supervised internship experience at a business or organization and customized to meet the needs of students served through the Cooperative Work Study Program. This course is managed in the Career Services Office. (Repeatable 3 times) (Variable Credit 0.5/4 Credits, 20 Lab/Lab-Discussion)

INS 299▼
Independent Study
(Repeatable 3 times) For more information about this course or to secure a contract to take an independent study please contact the Vice President for Academic Services. (Variable Credit 0.5/4 Credits, 4 Lecture)

INDUSTRIAL MAINTENANCE (IND---)

IND 042
Pipefitting Procedures
Focuses on the basic principles of installation and maintenance of industrial piping systems. Mechanical joining methods are stressed. Course Level Fee 1 (1 Credits, 0.5 Lecture, 1 Lab/Lab-Discussion)

IND 043
Heat Vent A/C I
Prerequisite: EET 050 or MET 042
This course covers the basic refrigeration cycle, as well as refrigeration components and types of refrigerants. Students work with tools and gauges, measure temperatures and pressures and practice refrigeration safety procedures. Course Level Fee 2 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

IND 044
Fluid Power
Provides the mechanic with the basic concepts of pneumatics and hydraulics. It will concentrate on fluid power components and their purpose. Course Level Fee 1 (3 Credits, 2.5 Lecture, 1 Lab/Lab-Discussion)

IND 045
Heat Vent A/C II

Prerequisite: IND 043

Continues study of Heating, Ventilating, and Air Conditioning I. Course studies various types of heating, ventilating, and air conditioning systems, applications, load calculations, psychrometric principles, plus maintenance, repair and servicing of refrigeration units. Course Level Fee 1 (4 Credits, 2 Lecture, 4 Lab/Lab-Discussion)

IND 046
Basic Electrical Maintenance

Provides the student with the basic electrical theory and hands-on experience using a variety of basic test equipment. Course Level Fee 1 (3 Credits, 2.5 Lecture, 1 Lab/Lab-Discussion)

IND 052
Electrical Installation Procedures

Prerequisite: MET 040 and MET 042

Focuses on the methods and materials used in electrical installation, and the problems encountered in construction work. The National Electrical Code is used as a guide. Course Level Fee 1 (2.5 Credits, 1 Lecture, 3 Lab/Lab-Discussion)

IND 054
Trouble Shooting and Preventative Maint

Prerequisite: MET 040 and MET 042 and IND 044

Provides those skills and insights necessary to detect and solve problems which occur in industrial machinery. Includes procedures aimed at prevention rather than emergency action. Course Level Fee 1 (Variable Credit 0.5/3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

IND 056▼
Pneumatic Controls

Prerequisite: PPT 050

This course is designed to provide a basic understanding of pneumatic control systems related to power plant technology. Students learn industry-relevant skills including how to operate, install, and analyze performance of basic pneumatic systems. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 1.5 Lecture, 3 Lab/Lab-Discussion)

IND 058▼
Industrial Pumps

This course is designed to provide a basic understanding of repair and maintenance of industrial centrifugal and positive displacement pumps. Students learn industry-relevant skills including how to: install, maintain, troubleshoot, analyze performance, and select centrifugal and positive displacement pumps. (Repeatable 3 times) Course Level Fee 2 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

IND 060▼
Industrial Valves

This course is designed to provide a basic understanding of industrial control valves and actuators. Students learn industry-relevant skills including how to: operate, install, maintain, and analyze performance of control valves and actuators. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

IND 062▼
Rigging and Hoisting

This course is designed to provide a basic understanding of hoisting and rigging equipment. Safety regulations will be discussed along with determination of safe working loads and proper care of equipment. (Repeatable 3 times) Course Level Fee 3 (1 Credits, 1 Lecture)

INFORMATION LITERACY (LIB---)

LIB 100
Intro to Information Literacy

Students will study available resources and research methods that help them understand how to use library and Internet resources. Students will formulate a research strategy, develop search skills, and evaluate sources. Course Level Fee 2 (1 Credits, 1 Lecture)

INFORMATION TECHNOLOGY TRAIN (ITT---)

ITT 040▼
IT Computer Applications Crt Internship

Prerequisite: Completion of 15 semester hours in IT Computer Applications certificate with 2.0 minimum GPA

Designed to give Computer Applications students on-the-job experience. The students must work in a computer-related area. (Repeatable 3 times) (1 Credits, 5 Lab/Lab-Discussion)

ITT 041▼
IT Computer Apps Degree Internship

Prerequisite: Completion of 50 semester hours in IT Computer Applications program with 2.0 minimum GPA

Designed to give Computer Applications students on-the-job experience. The students must work in a computer-related area. (Repeatable 3 times) (2 Credits, 2 Lecture, 10 Lab/Lab-Discussion)

ITT 042▼
IT Net Admin Cert Internship

Prerequisite: Completion of 15 semester hours in IT Network Administration certificate with 2.0 minimum GPA

Designed to give Network Administration students on-the-job experience. The students must work in the community in a computer related area. (Repeatable 3 times) (1 Credits, 5 Lab/Lab-Discussion)

ITT 043▼
IT Network Admin Degree Internship

Prerequisite: Completion of 50 semester hours in IT Network Administration program with 2.0 minimum GPA

Designed to give Network Administration students on-the-job experience. The students must work in the community in a computer related area. (Repeatable 3 times) (2 Credits, 1 Lecture, 10 Lab/Lab-Discussion)

ITT 044▼
IT Programming Certificate Internship

Prerequisite: Completion of 15 semester hours in IT Programming Certificate with 2.0 minimum GPA

Designed to give programming students on-the-job experience. The students must work in a computer-related area. (Repeatable 3 times) (1 Credits, 5 Lab/Lab-Discussion)

ITT 045▼
IT Programming Degree Internship

Prerequisite: Completion of 50 semester hours in IT Programming Degree with 2.0 minimum GPA

Designed to give programming students on-the-job experience. The students must work in a computer-related area. (Repeatable 3 times) (2 Credits, 1 Lecture, 10 Lab/ Lab-Discussion)

ITT 046▼
IT Web Technology Cert Internship

Prerequisite: Completion of 15 semester hours in IT Web Technology certificate with 2.0 minimum GPA

Designed to give Web Technology students on-the-job experience. The students must work in the community in a computer related area. (Repeatable 3 times) (1 Credits, 5 Lab/ Lab-Discussion)

ITT 047▼
IT Web Technology Degree Internship

Prerequisite: Completion of 50 semester hours in IT Web Technology degree with 2.0 minimum

Designed to give Web Technology students on-the-job experience. The students must work in the community in a computer related area. (Repeatable 3 times) (2 Credits, 1 Lecture, 10 Lab/Lab-Discussion)

ITT 048▼
IT Digital Media Certificate Internship

Prerequisite: Completion of 15 semester hours in IT Digital Media with 2.0 minimum GPA

Designed to give Digital Media Specialist students on-the-job experience. The students must work in the community doing video, web, or animation production. (Repeatable 3 times) Course Level Fee 2 (1 Credits, 5 Lab/ Lab-Discussion)

ITT 049▼
Introduction to Digital Video

An introductory course covering the basic terminology, techniques, and equipment used in professional and prosumer video productions. The concentration will be on understanding fundamentals as the techniques and editing of the video will be covered in a later class. (Repeatable 3 times) (2 Credits, 2 Lecture)

ITT 050▼
IT Game Development Cert Internship

Prerequisite: Completion of 15 semester hours in IT Game Development certificate with 2.0 minimum GPA

Designed to give Game Development students on-the-job experience. The students must work in the community in an animation, modeling or programming related area. (Repeatable 3 times) (1 Credits, 5 Lab/ Lab-Discussion)

ITT 053
Digital Media Arts

Prerequisite: CIS 088

An introduction to using digital technology to produce artistic creations on the computer. Students will learn basic art theories of design, color, typography, and visual elements and how to apply them in a digital environment. Course Level Fee 2 (3 Credits, 3 Lecture)

ITT 054▼
Mobile Application Development

Prerequisite: CIS 156

This course is a study of mobile device programming. Development of mobile applications including user interfaces, user input, variables, icons, decision making, lists, arrays, web browsers, audio, pictures, tablets, animation, Google maps, and publishing are covered. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 3 Lecture)

ITT 063 Innovation I
This course examines the history, technology, and progression of innovation and innovative ideas in IT, robotics, electronics, and DIY makerspace environments. The tools and techniques used in the innovation lab will be explored. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion.)

###This course is pending ICCB approval.

ITT 064▼
Innovation II

Prerequisite: CIS 063 or instructor consent

A practical, lab-based class that concentrates on the design, development, and implementation of physical and electronic computer interfaces. The goal is to extend the reality of computer use and/or game play using both currently available and custom hardware and software. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 6 Lab/ Lab-Discussion)

ITT 066▼
Indie Game Development Lab

This course is a production class that mimics the game development environment in an indie development house. Methods of production will be covered, options will be discussed and assignments will be made based on skill and ability. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 6 Lab/ Lab-Discussion)

ITT 068▼
Digital Video Effects

Prerequisite: CIS 066

This course is a continuation of post-production techniques that includes but is not limited to compositing, chromakeying, rotoscoping, motion tracking, matte effects, 3D production techniques and motion graphics. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

INTENSIVE ENGLISH LANGUAGE (IEL---)

IEL 001▼
Beg Reading/Vocabulary I

Prerequisite: Placement in the course is based upon formal and informal assessment by Intensive English Language staff.

The course is designed for students with limited knowledge of English reading and vocabulary fundamentals. Students will be taught basic phonics and alphabet skills. Emphasis will be placed on reading simple passages containing basic vocabulary and expressions necessary to function in everyday life. (Repeatable 3 times) (5 Credits, 3 Lecture, 4 Lab/Lab-Discussion)

IEL 003▼
Beg Grammar/Writing I

Prerequisite: Placement in the course is based upon formal and informal assessment by Intensive English Language staff.

The course is intended for students with limited knowledge of English grammar and writing. Students will be taught sentence structure and rules of grammar and will begin to use English in writing simple sentences and basic paragraphs. (Repeatable 3 times) (5 Credits, 3 Lecture, 4 Lab/Lab-Discussion)

IEL 005▼
Beg Speaking/Listening I

Prerequisite: Placement in the course is based upon formal and informal assessment by Intensive English Language staff.

The course is designed for students with limited knowledge of spoken English. Student will concentrate on improving oral English skills in order to function in everyday life and in academic settings. Practice will include working with phonics, conversation, and listening. (Repeatable 3 times) (4 Credits, 2 Lecture, 4 Lab/Lab-Discussion)

IEL 007▼
Int Reading/Vocabulary I

Prerequisite: Placement in the course is based upon formal and informal assessment by Intensive English Language staff.

The course is intended to develop vocabulary and reading at the intermediate level. Students will review phonics, expand vocabulary, practice outlining and summarizing, and increase their comprehension through work on reading for the main idea, and recognizing supporting details. (Repeatable 3 times) (5 Credits, 3 Lecture, 4 Lab/Lab-Discussion)

IEL 009▼
Int Grammar/Writing I

Prerequisite: Placement in the course is based upon formal and informal assessment by Intensive English Language staff.

The course is designed to increase knowledge of grammar and writing techniques at the intermediate level. Students will review and expand on English grammar rules and sentence structures and will use English to write compound and complex sentences, paragraphs, and short papers. (Repeatable 3 times) (5 Credits, 3 Lecture, 4 Lab/Lab-Discussion)

IEL 011▼
Int Speaking/Listening I

Prerequisite: Placement in the course is based upon formal and informal assessment by Intensive English Language staff.

The course is designed to improve speaking and listening skills at the intermediate level. Students will expand their ability to converse in English and work on improving their oral skills for everyday interaction and for academic settings. (Repeatable 3 times) (4 Credits, 2 Lecture, 4 Lab/Lab-Discussion)

IEL 013▼
Adv Reading/Vocabulary I

Prerequisite: Placement in the course is based upon formal and informal assessment by Intensive English Language staff.

The course is designed to improve reading and vocabulary skills for students at the advanced level. Emphasis will be placed on expanding vocabulary and developing the ability to read college level texts, newspapers, magazines, and journals. (Repeatable 3 times) (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

IEL 015▼
Adv Grammar/Writing I

Prerequisite: Placement in the course is based upon formal and informal assessment by Intensive English Language staff.

The course is designed to assist the non-native speaker in attaining an advanced knowledge of English grammar and writing. Students will study skills needed in college level composition classes. (Repeatable 3 times) (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

IEL 017▼
Adv Speaking/Listening I

Prerequisite: Placement in the course is based upon formal and informal assessment by Intensive English Language staff.

The course is designed to improve speaking and listening skills for students at the advanced level. English of a more complex nature will be stressed. Emphasis will be on oral communication skills for academic application. (Repeatable 3 times) (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

IEL 019
Beg English Non-Native Speaker

Prerequisite: Placement in the course is based upon formal and informal assessment by Intensive English Language staff.

The course is designed for students with limited knowledge of English. Students will be introduced to basic English phonics and alphabet skills and ill begin to learn reading, grammar, speaking, and listening in English. (5 Credits, 4 Lecture, 2 Lab/Lab-Discussion)

IEL 021
Int English Non-Native Speaker

Prerequisite: Placement in the course is based upon formal and informal assessment by Intensive English Language staff.

The course is intended to develop vocabulary, reading, grammar, and oral English skills at the intermediate level. Students will review and expand reading and writing skills and improve oral English skills. (5 Credits, 4 Lecture, 2 Lab/ Lab-Discussion)

IEL 023
Adv English Non-Native Speaker

Prerequisite: Placement in the course is based upon formal and informal assessment by Intensive English Language staff.

The course is designed for students at the advanced level. Emphasis will be placed on attaining an advanced proficiency in reading, grammar and writing, speaking, and listening as it relates to academic achievement and success. (5 Credits, 4 Lecture, 2 Lab/Lab-Discussion)

JOHN DEERE TECH (JDA---)

JDA 041
John Deere SOE I

Prerequisite: ENG 050 or ENG 120 and JDA 080 and JDA 073 and JDA 091 and JDA 111 and TEC 048 and JDA 071 and JDA 086 and JDA 092 and ECO 130 and JDA 072 and JDA 094 and HED-178 or instructor consent

Students will receive on-the-job experience in a John Deere dealership. This will allow them to practice and utilize the skills and knowledge learned previously. This work will be supervised by the sponsoring dealership and a Lake Land College John Deere Ag Tech instructor. Course Level Fee 4 (2 Credits, 20 Lab/Lab-Discussion)

JDA 042
John Deere SOE II

Prerequisite: JDA 041

Students will receive on-the-job experience in a John Deere dealership. This will allow them to practice and utilize the skills and knowledge learned previously. This work will be supervised by the sponsoring dealership and a Lake Land College John Deere Ag Tech instructor. Course Level Fee 4 (4 Credits, 20 Lab/Lab-Discussion)

JDA 043
John Deere SOE III

Prerequisite: JDA 042 and JDA 087 and JDA 050 and JDA 051 and SPE 111 and JDA 095 and JDA 082 and JDA-113 or instructor consent

Students will receive on-the-job experience in a John Deere dealership. This will allow them to practice and utilize the skills and knowledge learned previously. This work will be supervised by the sponsoring dealership and a Lake Land College John Deere Ag Tech instructor. Course Level Fee 4 (4 Credits, 20 Lab/Lab-Discussion)

JDA 050
John Deere Engine Systems

An introduction to John Deere engines and their systems. Basic theory of engine principles will be discussed along with diagnosis and repair of intake and exhaust, cooling, lubrication systems, cylinder heads, bearings, and crankshafts. Course Level Fee 3 (3 Credits, 1 Lecture, 4 Lab/Lab-Discussion)

JDA 051
JD Tillage & Seeding Equipment

This class is an introduction to John Deere tillage and seeding equipment including theory and principles of operation, set-up and adjustment, trouble-shooting, and repair. Course Level Fee 2 (3 Credits, 1 Lecture, 4 Lab/Lab-Discussion)

JDA 054
JD Turf & Utility Equipment

Prerequisite: JDA 080 and JDA 073 and JDA 111

This course is a study of John Deere consumer and commercial equipment. Operation, diagnosis, and repair of internal combustion engines, engine ignition systems, electrical and safety systems, fuel systems, and mowing attachments will be covered. (Repeatable 1 Time) Course Level Fee 2 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

JDA 071
John Deere Power Trains

Theory of power transmission from engine to traction wheels. Includes the function and operation of gears, chains, clutches, planetary gears, drive lines, differentials, and transmissions. Complete disassembly, inspection, and reassembly of John Deere components will occur. Also, diagnosis, repair, and adjustment of John Deere transmissions will be covered. Course Level Fee 3 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

JDA 072
JD Advanced Power Trains

Prerequisite: JDA 071

Students will put into practice the theories of diagnosis, disassembly, inspection, repair and reassembly of John Deere power train components. These components will include clutches, transmissions, differential, and final drives for both combines and tractors. Course Level Fee 3 (3 Credits, 1 Lecture, 4 Lab/Lab-Discussion)

JDA 073
JD Shop Skills & Fundamentals

Procedures with respect to shop safety and organization, identification and proper use of tools, use of measuring equipment, plus orientation to John Deere manuals, warranty procedures, shop tickets, and product identification evolution. (Repeatable 1 Time) Course Level Fee 2 (3 Credits, 1.5 Lecture, 3 Lab/Lab-Discussion)

JDA 080
John Deere Electrical Systems

Basic electrical principles and applications of magnetism, electromagnetism, and the safe utilization of electrical test meters. Principles of operation, testing, and repair of ignition systems, cranking systems, and charging systems will be demonstrated and practiced. (Repeatable 1 Time) Course Level Fee 3 (3.5 Credits, 2 Lecture, 3 Lab/Lab-Discussion)

JDA 082
JD Advanced Elect/Electronic Sys

Prerequisite: JDA 080

Designed to develop and strengthen the student's knowledge in electrical/electronic systems. Upon completion the student will be able to properly use service equipment to diagnose electronically controlled components and monitor systems used on tractors, planting, and harvesting equipment. Course Level Fee 3 (3.5 Credits, 1.5 Lecture, 4 Lab/Lab-Discussion)

JDA 086
John Deere Combine Production

Prerequisite: JDA 080 and JDA 091 and TEC 048 and JDA 111 and JDA 073

This course is a study of the theory and principles of operation of John Deere conventional and STS combines, corn heads, and grain platforms. Pre-delivery, set-up, and, adjustment of combines and headers will be performed. Course Level Fee 3 (2.5 Credits, 1.5 Lecture, 2 Lab/Lab-Discussion)

JDA 087
John Deere Fuel Systems

Prerequisite: JDA 042 or instructor consent

Basic understanding of the operating principles of John Deere fuel systems. Students will also learn diagnosis, removal, installation, and repair of John Deere mechanical and electrical-electronic fuel system components. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

JDA 091
John Deere Hydraulics I

Prerequisite: Enrolled in John Deere Tech Program

Covers principles and application of theory, construction, fluid flow and testing of components used on John Deere tractors, combines, and consumer and commercial equipment. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

JDA 092
John Deere Hydraulics II

Prerequisite: JDA 091

A study of John Deere tractor and combine and sprayer hydraulic systems. Emphasis will be placed on diagnosis and repair of hydraulic and hydrostatic drive systems. Course Level Fee 2 (3 Credits, 1 Lecture, 4 Lab/Lab-Discussion)

JDA 094
John Deere Air Cond Systems

Theory and principles of operation, diagnosis, and repair of John Deere heating and air conditioning systems. Students will also become certified to comply with state and federal laws. Course Level Fee 3 (2.5 Credits, 1 Lecture, 3 Lab/Lab-Discussion)

JDA 095
John Deere Equip Diagnostics

This class will provide the student with an opportunity to develop proper diagnostic skills needed at a dealership. Course Level Fee 3 (3 Credits, 1 Lecture, 4 Lab/Lab-Discussion)

JDA 111▼
John Deere Ag Software

Use of computers as required by John Deere dealership service employees. Emphasis will be on locating service diagnostic and repair information. (Repeatable 1 Time) Course Level Fee 2 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

JDA 113▼
John Deere Apex Software

Use of computers and machines to become familiar with precision agriculture and global positioning systems installed on farm equipment and proper operation and repair of these units. (Repeatable 3 times) Course Level Fee 1 (2 Credits, 2 Lecture)

JDA 114
John Deere Hay Equipment

Prerequisite: Enrollment in the John Deere Tech Program

This course introduces students to John Deere Hay equipment. This equipment includes Mower-Conditioners, Hay Rakes, Small Square Balers, and Large Round Balers. Course Level Fee 2 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

JOURNALISM (JOR---)

JOR 251
Intro to Journalistic Photography

Teaches the student basic photographic techniques, including uses of different types of cameras, principles of the taking of photographs, darkroom procedures for film development and printing, photographic editing, cutline writing, and examination of current trends in journalistic photography. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

LAW ENFORCE/CRIMINAL JUSTICE (CJS---)

See Criminal Justice

LITERATURE (LIT---)

LIT 130
Intro to Literature
IAI H3 900

Prerequisite: ENG 120 with a grade of 'C' or higher.

Students will read, examine, and discuss a variety of literary works from different genres as a way to analyze and understand the value, purpose, and components of literature. (3 Credits, 3 Lecture)

LIT 144
Introduction to Shakespeare

Introduction to Shakespeare as a literary and dramatic writer; study of three Shakespeare plays in Elizabethan/Jacobean theater, ideas, culture, politics, modern critical debates and changing styles of production. Examination of individual plays; relationships, cultural, ideological, theatrical contexts and aspects. (3 Credits, 3 Lecture)

LIT 147
Introduction to Fiction
IAI H3 901

Prerequisite: ENG 120; Minimum grade C

Students will read, discuss, and analyze short stories and novels written by different authors from a variety of time periods as a way of appreciating and understanding the purposes, forms, terms, and critical approaches associated with these two literacy modes. (3 Credits, 3 Lecture)

LIT 150
Children's Literature

Prerequisite: ENG 120; Minimum grade C

Study of various forms and types of literature for the intellectual stimulation of the small child and storytelling and oral interpretation techniques. (3 Credits, 3 Lecture)

LIT 250
Amer Literature Survey I
IAI H3 914

Prerequisite: ENG 120; Minimum grade C

Students will read and study American literary works written between 1600 - 1860 that are indicative, reflective of the time period's influential authors and evolving ideas. (3 Credits, 3 Lecture)

LIT 251
Amer Literature Survey II
IAI H3 915

Prerequisite: ENG 120; Minimum grade C

Students will read, study, and examine American Literary works written after the Civil War to the present that are reflective of the time period's significant literary movements and changing intellectual social, and political perspectives. (3 Credits, 3 Lecture)

LIT 252
Multicultural American Lit
IAI H3 910D

Prerequisite: ENG 120; Minimum grade C

An introduction to the literary and cultural traditions of Native American, African American, and Hispanic American people and to general issues of cultural marginalization of minorities in the American experience. (3 Credits, 3 Lecture)

LIT 260
English Lit Survey I
IAI H3 912

Prerequisite: ENG 120; Minimum grade C

Students will read and study British literary works to 1800 that are indicative and reflective of the time period's influential authors and evolving ideas. (3 Credits, 3 Lecture)

LIT 261
English Lit Survey II
IAI H3 913

Prerequisite: ENG 120; Minimum grade C

Students will read and study British literary works from 1800 to the present that are indicative and reflective of the time period's influential authors and evolving ideas. (3 Credits, 3 Lecture)

LIT 270
Literature/Women
IAI H3 911D

Prerequisite: ENG 120; Minimum grade C

Students will study women as both writers and characters in literature written by women in English. Students will explore important themes and ideas, as well as learn about form, technique, and literary terms. (3 Credits, 3 Lecture)

LIT 274
Bible As Literature
IAI H5 901

Prerequisite: ENG 120; Minimum grade C

Students will read the Old Testament, Apocrypha, and New Testament. By studying in the Bible's many genres and tones, students will discover that after many centuries the Bible remains a compelling literary masterpiece.(3 Credits, 3 Lecture)

MACHINE TOOL TECHNOLOGY (MTT---)

MTT 050
Intro to Machining Procedures

A study designed to highlight the theory and application of cutoff machines, drill press, engine lathe, milling machines, and basic benchwork involving layout and hand tools. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

MANUFACTURING MAINTENANCE (MMP---)

MMP 040
Manufacturing Maintenance I

This course provides students with an introduction to the fundamentals of manufacturing and the maintenance associated with manufacturing processes. Topics include safety in the industrial setting, basic shop skills for manufacturing maintenance, and maintenance reliability. (4.5 Credits, 3.5 Lecture, 2 Lab/Lab-Discussion)

MMP 042
Manufacturing Maintenance II

This course provides students with an introduction to the fundamentals of manufacturing and the maintenance associated with manufacturing process. Topics include material handling, mechanical systems, lubrication, and fluid power. (3 Credits, 1.5 Lecture, 3 Lab/Lab-Discussion)

MMP 044
Manufacturing Maintenance III

This course provides students with an introduction to the fundamentals of manufacturing and the maintenance associated with manufacturing process. Topics include machining, welding, computer numerical control, workholding & fixturing and robotics. (4.5 Credits, 2.5 Lecture, 4 Lab/Lab-Discussion)

MMP 046
Manufacturing Maintenance IV

This course provides students with an introduction to the fundamentals of manufacturing and the maintenance associated with manufacturing process. Topics include electrical systems; industrial electricity and troubleshooting electrical systems. (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

MMP 048
Manufacturing Maintenance V

This course provides students with an introduction to the fundamentals of analyzing and troubleshooting a manufacturing process. Topics include problem solving and root cause analysis. (1.5 Credits, 1 Lecture, 1 Lab/ Lab-Discussion)

MASSAGE THERAPY (MAS---)

MAS 055
Massage Therapy I

Prerequisite: Admission to Program

This course serves as an introduction to the basic principles and Swedish massage techniques. This course introduces students to the historical overview of massage therapy and specific areas of massage practice including: draping, body mechanics, centering, and client positioning. Course Level Fee 3 (5 Credits, 4 Lecture, 2 Lab/Lab-Discussion)

MAS 060
A & P for Massage Therapist II

Prerequisite: BIO 050

This course provides the basic structure and function of the musculoskeletal system of the human body and basic theory of anatomy & physiology. The students will learn the origin, insertion and action of the major muscles of the human body. (4 Credits, 4 Lecture)

MAS 065
Massage Therapy II

Prerequisite: MAS 055

This course is a continuation of a full body massage expanding the basic therapy and techniques of massage therapy. The student will learn alternative methods, introduction to myofascial release, deep tissue, reflexology, pregnancy massage, client assessment and SOAP writing. Course Level Fee 3 (5 Credits, 4 Lecture, 2 Lab/Lab-Discussion)

MAS 067
Pathology/Massage Therapist

This is a course of the nature and cause of diseases, which involves changes in structure and function, and the conditions produced by the diseases. Student will understand the effects of specific massage treatments and how to select the most appropriate techniques for the condition. (3 Credits, 3 Lecture)

MAS 070
Ethics for Massage Therapist

This course will discuss ethics dealing with a variety of situations that can occur between therapist and client. The Massage Therapist Code of Ethics will be reviewed. Student will learn about state laws and regulations governing massage therapy and licensure. (1 Credits, 1 Lecture)

MAS 075
Massage Therapy III

Prerequisite: MAS 065

This course is designed to build on more contemporary and bodywork techniques. Chair massage, hydrotherapy, sports massage, trigger point therapy, spa techniques, and others will be discussed and practiced. Course Level Fee 3 (5 Credits, 4 Lecture, 2 Lab/Lab-Discussion)

MAS 077
Massage Clinic I

Prerequisite: MAS 065

This course is a supervised in house clinical practicum, in which the students will apply newly acquired skills of therapeutic massage to clients, including Swedish Massage, Chair Massage, Sports Massage and Reflexology. Course Level Fee 3 (1.5 Credits, 3 Lab/Lab-Discussion)

MAS 085
Massage Therapy IV

Prerequisite: MAS 075

This course will introduce the student to Asian bodywork and continue to build on additional contemporary and bodywork techniques. The student will learn new and adaptive massage techniques including floor/table Shiatsu, geriatric massage and polarity. Course Level Fee 3 (5 Credits, 4 Lecture, 2 Lab/Lab-Discussion)

MAS 087
Massage Clinic II

Prerequisite: MAS 077

This course is a supervised in house clinical practicum, in which the students will apply new and previously acquired skills of therapeutic massage to clients, including Swedish Massage, Chair Massage, Sports Massage, and, Shiatsu. Course Level Fee 3 (1.5 Credits, 3 Lab/Lab-Discussion)

MATHEMATICS (MAT---)

MAT 001▼
Pre-Algebra

A course enabling students to review and improve math skills. Emphasis is on the following topics: fractions, decimals, percents, proportion, measurement, simple geometry, signed numbers and algebraic equations. Techniques for overcoming math anxiety will be interwoven throughout the course. (Repeatable 3 times) (3 Credits, 3 Lecture)

MAT 005▼
Beginning Algebra

Prerequisite: Placement by assessment or MAT-001 grade of C or higher

This course is for students with little or no working knowledge of elementary algebra. Emphasis is placed on manipulative skills with real numbers, solving linear equations and inequalities and systems of equations, functions, and properties of linear functions. (Repeatable 3 times) (3 Credits, 3 Lecture)

MAT 006▼
Intermediate Algebra

Prerequisite: Placement by assessment or MAT-005 grade of 'C' or higher

This course is for students with some working knowledge of elementary algebra. Emphasis is placed on exponents, polynomials, factoring, quadratic functions, rational expressions, roots and radicals. A graphing calculator is required. Ask instructor for calculator recommendation. (Repeatable 3 times) (4 Credits, 4 Lecture)

MAT 008▼
Math Literacy

This course is an introductory course integrating numeracy, proportional reasoning, algebraic reasoning and functions. It is intended for non-math and non-science majors needing MAT 125 Statistics or MAT 116 General Education. Successful completion of this course satisfies the geometry requirement. (Repeatable 3 times) (6 Credits, 6 Lecture)

MAT 009
Geometry

Prerequisite: Placement by assessment or MAT-005

This course is an introductory course in plane geometry for students with less than one year of high school geometry. Topics included, but not limited to, are: lines, angles, proofs, triangles, Pythagorean theorem, circles, various geometrical formulas and coordinate geometry. (3 Credits, 3 Lecture)

MAT 090
Math for Computer Applications

Prerequisite: Placement by assessment or MAT-005

Covers mathematical concepts used in the computer and business field. Topics include algebra; addition, subtraction, multiplication, division of decimals and fractions; hexadecimal, binary and octal number systems. Problem solving techniques will be used to solve business-related narrative problems. (3 Credits, 3 Lecture)

MAT 116
General Education Math

IAI M1 904

Prerequisite: Placement by assessment or MAT-006 grade of 'C' or higher or MAT-008 grade of 'C' or higher; also 1 year HS geometry or MAT-009

Survey of mathematical topics with emphasis on solutions to real life problems. Topics will include set theory, consumer/financial math, measurement, and statistics. Problem solving projects involving detailed written solutions will be required. Calculators and computers will be used. (3 Credits, 3 Lecture)

MAT 118
Math for Elem Teachers I

Prerequisite: Placement by assessment or MAT-006 grade 'C' or higher; also 1 year HS geometry or MAT-009

A course designed for Elementary Education majors. Topics include number theory, probability and statistics, development of numeration systems, sets, functions, mathematical reasoning and problem solving. Counts as general education requirement for elementary education majors when taken in sequence with MAT 218. (3 Credits, 3 Lecture)

MAT 125
Statistics

IAI M1 902

Prerequisite: Placement by assessment or MAT-006 grade 'C' or higher or MAT-008 grade 'C' or higher; also 1 year HS geometry or MAT-009

Application of elementary principles of descriptive statistics including frequency distribution, graphical presentation, measure of location and variation. Elements of probability, sampling techniques, binomial and normal distribution and other topics. (3 Credits, 3 Lecture)

MAT 130
College Algebra

Prerequisite: Placement by assessment or MAT-006 grade of 'C' or higher; also 1 year HS geometry or MAT-009

Review of the real number system, radicals, equations, and exponents, relations and functions, logarithms, complex numbers, polynomials, and theory of equations. A graphing calculator is required. A graphing calculator is required. Ask instructor for calculator recommendation. (3 Credits, 3 Lecture)

MAT 132
Trigonometry

Prerequisite: MAT-130 with grade of 'C' or higher

Study of trigonometric functions, trigonometric identities, graphing, solving trigonometric equations, inverse trigonometric functions, right triangle trigonometry, application of law of sines and law of cosines, complex numbers and vectors. A graphing calculator is required. Ask instructor for calculator recommendation. (3 Credits, 3 Lecture)

MAT 140
Algebra With Trigonometry

Prerequisite: Placement by assessment or MAT-006 grade of 'C' or higher; also 1 year HS geometry or MAT-009

A unified study of the algebraic and trigonometric concepts needed for calculus. Credit not granted for both this course and College Algebra. A graphing calculator is

required. Ask instructor for calculator recommendations. (5 Credits, 5 Lecture)

MAT 151
C Program W/Engineering Appl
IAI EGR 922
Prerequisite: MAT-241 with grade of 'C' or higher
Introduction to the programming language C. Fundamental principles, concepts, and methods of computing with emphasis on calculus-based problem-solving techniques and applications from engineering and physical science. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

MAT 210
Finite Mathematics
IAI M1 906
Prerequisite: Placement by assessment or MAT-130 with grade of 'C' or higher; also 1 year of HS geometry or MAT-009
An introduction to Finite Mathematics, matrices, linear systems of equations and inequalities, linear programming, counting theory and probability. (3 Credits, 3 Lecture)

MAT 211
Math Analysis
IAI M1 900
Prerequisite: Placement by assessment or MAT-130 with grade of 'C' or higher; also 1 year HS geometry or MAT-009
This course covers mathematical analysis of polynomial calculus with applications to business and social sciences. It includes the mathematics of finance, techniques and applications of differentiation & integration, optimization theory and area. Graphing calculator required. Ask instructor for calculator recommendation. (4 Credits, 4 Lecture)

MAT 218
Math for Elem Teachers II
IAI M1 903
Prerequisite: MAT-118 with grade of 'C' or higher
The study of the concepts and theory of measurement and geometry via the problem-solving approach, using both calculators and microcomputers throughout. Designed for Elementary Education majors. Counts as general education requirement for elementary education majors when taken in sequence with MAT-118. (3 Credits, 3 Lecture)

MAT 241
Analytical Geometry and Calculus I IAI M1 900-1,MTH901
Prerequisite: Placement by assessment or MAT-140 with grade of 'C' or higher; MAT-130 and MAT-132 may be substituted for MAT-140 with Division Chair approval; also 1 year HS geometry or MAT-009
Differential and integral calculus of elementary functions of one variable, such as polynomial, rational, radical, trigonometric, inverse trigonometric, exponential and logarithmic functions, will be covered. Applications include rates of change, optimization, curve sketching and area. A graphing calculator is required. Ask instructor for calculator recommendations. (5 Credits, 5 Lecture)

MAT 242
Analytical Geometry and Calculus II
IAI M1 900-2,MTH902
Prerequisite: MAT-241 with grade of 'C' or higher
A continuation of Calculus I with emphasis on different methods of integration and applications, L' Hôpitals Rule, Sequences, series, Power series, Taylor series and Maclaurin series. A graphing calculator is required. Ask instructor for calculator recommendations. (4 Credits, 4 Lecture)

MAT 243
Analytical Geometry and Calculus III
IAI M1 900-3,MTH903
Prerequisite: MAT-242 with grade of 'C' or higher
A continuation of analytic geometry and Calculus II. The focus is on solid analytic geometry, vectors, partial derivatives, line, volume and surface integrals in various coordinate systems, and vector fields. A graphing calculator is required. Ask instructor for calculator recommendations. (4 Credits, 4 Lecture)

MAT 245
Differential Equations
IAI MTH 912
Corequisite: MAT-243
Designed for pre-engineering students and others who need a working knowledge of ordinary differential equations. (3 Credits, 3 Lecture)

MAT 255
Linear Algebra
IAI MAT 911
Prerequisite: MAT-241 with grade of 'C' or higher
A first course in linear algebra covering linear systems, matrices, determinants, vector spaces, inner product spaces, and eigenvalues and eigenvectors, including proofs of theorems and propositions in each topic. (3 Credits, 3 Lecture)

MECHANICAL ELECTRICAL TECH (MET---)

MET 040
D.C. Circuits
Corequisite: TEC 048 and TEC 050
This course introduces the student to basic theory of DC electricity. Course Level Fee 1 (2.5 Credits, 1.5 Lecture, 2 Lab/Lab-Discussion)

MET 042
A.C. Circuits
Prerequisite: MET 040
This course presents the theory of AC electricity and the application of transformers and distribution equipment. Course Level Fee 1 (2.5 Credits, 1.5 Lecture, 2 Lab/Lab-Discussion)

MET 043
Motors and Generators
Prerequisite: EET 050 or MET 042
This course focuses on the installation, maintenance and application of motors, equipment and controls. Course Level Fee 1 (2.5 Credits, 1.5 Lecture, 2 Lab/Lab-Discussion)

MET 044
Introduction to Robotics
Introduced concepts of robotics by examining the history of robots, how robots are classified, how they fit into the manufacturing picture, and what is needed to program them. (1 Credits, 1 Lecture)

MET 045▼
Mechanical Drive Systems
This course is designed to provide a basic understanding of mechanical drive systems and components. Students will learn industry-relevant skills including how to: install, analyze performance, maintain, and troubleshoot heavy duty mechanical transmission systems. (Repeatable 3 times) Course Level Fee 3 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

MET 076
Supervised Occupational Experience
Prerequisite: Sophomore standing in Mechanical-Electrical Technology
Designed to provide work experience in field while maintaining contact with occupational instructor for review and assistance. (Variable Credit 0.5/6 Credits, 15 Lab/Lab-Discussion)

MET 080
Solid State Devices & Apps
Prerequisite: EET 050 or MET 042
Provides the student with a basic understanding of the most frequently used discrete semiconductors. Analog and digital integrated circuits also are studied. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

MET 084
Technical Mechanisms
Prerequisite: CAD 056 and TEC 054
Focuses on motion analysis of mechanical system components such as linkages, slider-crank mechanisms, working connectors, cams, gears and gear trains. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

MEDICAL CODING SPECIALIST (MCS---)

MCS 040
Health Information for Professionals
An introduction and overview to health information management. The course will cover the history and the many applicable fields available to a health information management specialist. Students will explore the different areas of health information. (3 Credits, 3 Lecture)

MCS 050
Principles of CPT Coding
A beginner's course for the CPT coding system. This class will provide students with a general understanding of the format and guidelines necessary for CPT coding. (3 Credits, 3 Lecture)

MCS 055
Principles of ICD-10-CM Coding
A beginner's course in ICD-10-CM coding and guidelines. Students will be introduced to a wide variety of coding segments and body systems. (3 Credits, 3 Lecture)

MCS 056
Credentialing/Emerging Coding
Prerequisite: MCS 050 and MCS 055
This course covers HCPCS coding, basic physician credentialing, and an introduction to ICD-10-CM. (3 Credits, 3 Lecture)

MCS 060
Medical Ins Reimbursement
An advanced course concerning medical insurance billing and reimbursement. This course will focus on insurance companies such as Blue Cross and Blue Shield, Medicare, and Medicaid. (3 Credits, 3 Lecture)

MCS 065
Adv CPT Coding and Modifiers
Prerequisite: MCS 050
An advanced course that explores the different subsections of the CPT and correct coding of procedures. Students will familiarize themselves with CPT coding by coding case studies and scenarios. (3 Credits, 3 Lecture)

MCS 068
Medical Management and Ethics
Prerequisite: MCS 040
This course covers the management of a medical office as well as ethics, biomedical ethics, and ethical challenges affecting the medical manager. (3 Credits, 3 Lecture)

MCS 070
Advanced ICD-10-CM Coding
Prerequisite: MCS 055
An advanced course specializing in all aspects of ICD-10-CM coding. This course will focus on specific body systems and not the overall aspect of ICD-10-CM coding. (3 Credits, 3 Lecture)

MCS 075
Hospital-Med Coding Internship
Prerequisite: PNC 055 and BIO 050 and MCS 050 and MCS 055
This course provides students with the opportunity to intern in a hospital setting. It provides supervised work experience coordinated with a healthcare systems related employer. A minimum of 62.5 hours of internship time is required for one credit hour. (1 Credits, 5 Lab/Lab-Discussion)

MCS 080
Clinic-Med Coding Internship
Prerequisite: PNC 055 and BIO 050 and MCS 050 and MCS 055
This course provides students with the opportunity to intern in a clinic setting. It provides supervised work experience coordinated with a healthcare systems related employer. A minimum of 62.5 hours of internship time is required for one credit hour. (1 Credits, 0 Lecture, 5 Lab/Lab-Discussion)

MCS 085
Hospital Coding Certification Prep
Prerequisite: MCS 060 and MCS 065 and MCS 070 or consent of instructor
An exam preparation course that will provide students with a comprehensive review for the CPC-H and CCS exams. (1 Credits, 1 Lecture)

MCS 090
Clinic Coding Certification Prep
Prerequisite: MCS 060 and MCS 065 and MCS 070 or consent of instructor
An exam preparation course that will provide students with a comprehensive review for the CPC and CCS-P exams. (1 Credits, 1 Lecture)

MCS 091
Healthcare Statistics
Prerequisite: AHE 055
This course is a statistics class focused on calculating and reporting healthcare statistics and the common formulas used by hospitals and physician offices. (3 Credits, 3 Lecture)

MCS 092
Medical Records and the Law
Prerequisite: MCS 040 and MCS 068
This is an advanced course focused on the American legal system and the impact the law has on medical records, health information in general, and HIPAA. (3 Credits, 3 Lecture)

MUSIC (MUS---)

MUS 104▼
Lake Land Community Choir
Instruction in choral music and experience. (Repeatable 3 times) (1 Credits, 2 Lab/Lab-Discussion)

MUS 126
Class Instruction in Piano I
Prerequisite: No piano experience or consent of instructor
A beginning course in piano study. (1 Credits, 2 Lab/Lab-Discussion)

MUS 127
Class Instruction in Piano II
Prerequisite: MUS 126 or consent of instructor
Class instruction in piano literature and skills. Required of music majors. (1 Credits, 2 Lab/Lab-Discussion)

MUS 150
Music in American History & Culture
IAI F1 904
A survey of the musical forms and styles in the United States from the music of the early colonists to the popular music of today. Musical forms and styles are considered in their cultural context. (3 Credits, 3 Lecture)

MUS 229
Understanding Music
IAI F1 900
A general humanities course studying various types and forms of music and the historical development of the art form. Surveys music literature from Middle Ages to present. (3 Credits, 3 Lecture)

PHILOSOPHY (PHI---)

PHI 232
World Religions
IAI H4 905
This course is designed to promote cultural diversity associated with religious practices. It includes a survey of religious systems and examines concepts and theories related to the nature of deities, good and evil, reason and faith, ethics, and afterlife. (3 Credits, 3 Lecture)

PHI 270
Introduction to Philosophy
IAI H4 900
An introduction to philosophical questioning and reasoning. This course will include an historical survey of western philosophy focusing on the development of specific branches within the field, including epistemology, metaphysics, ethics, philosophy of science, and social/political philosophy. (3 Credits, 3 Lecture)

PHI 280
Ethics
IAI H4 904
Introduction to issues and theories of ethics. Includes historical survey of major value systems and contemporary issues. (3 Credits, 3 Lecture)

PHI 290
Intro to Logic
IAI H4 906
Introduction to formal reasoning, including: language and meaning, deduction and induction, evidence, syllogistic argument and science and hypotheses. (3 Credits, 3 Lecture)

PHYSICAL EDUCATION (PED---)

PED 109
Basketball
Class designed to teach basic skills, rules and regulations, and allow students to participate in physical activity. Course Level Fee 1 (1 Credits, 2 Lab/Lab-Discussion)

PED 112
Bowling
This course is designed for the beginning bowler and for those who wish to learn a recreational activity. Course Level Fee 3 (1 Credits, 2 Lab/Lab-Discussion)

PED 113
Advanced Bowling
Prerequisite: PED 112 or proof of skill or instructor consent
Class is designed to teach advanced bowling skills, rules and regulations of bowling, and allow students to participate in physical activity. Course Level Fee 3 (1 Credits, 2 Lab/Lab-Discussion)

PED 116▼
Golf
Designed to help a student understand and appreciate golf. Will teach the basic skills and techniques for golf as a recreational and physical activity for all ages. (Repeatable 3 times) Course Level Fee 3 (1 Credits, 2 Lab/Lab-Discussion)

PED 117▼
Advanced Golf
Prerequisite: PED 116
Golf instruction for the advanced golfer. Course designed to increase the skill level. (Repeatable 3 times) Course Level Fee 3 (1 Credits, 2 Lab/Lab-Discussion)

PED 119▼
Karate
An introduction to the world of Martial Arts with emphasis on the art of Tae Kwon Do. Student will learn basic terminology, skills, and self defense. In about two years, the student should be close to a black belt. (Repeatable 3 times) Course Level Fee 1 (1 Credits, 2 Lab/ Lab-Discussion)

PED 123▼
Karate II
Prerequisite: PED 119
Designed to continue a broad range of activities in Tae Kwon Do training, oriented toward physical fitness, positive self-attitude, a sense of respect for others in society, self-defense and fun. (Repeatable 3 times) Course Level Fee 1 (1 Credits, 2 Lab/ Lab-Discussion)

PED 137
Tennis
Beginning course introducing the student to the game of tennis and tennis skills. Basic skills of forehand and backhand serving are emphasized. Course Level Fee 3 (1 Credits, 2 Lab/Lab-Discussion)

PED 138
Advanced Tennis
Prerequisite: PED 137 or proof of skill or instructor consent
An advanced course in tennis. Emphasizing advanced skills and techniques of tennis and in setting up tournaments. Course Level Fee 3 (1 Credits, 2 Lab/Lab-Discussion)

PED 141▼
Weight Training
To introduce to the student the basic principles of weight training, to demonstrate and participate in various programs, and increase strength. (Repeatable 3 times) Course Level Fee 1 (1 Credits, 2 Lab/Lab-Discussion)

PED 143▼
Aerobics
The course is designed to acquaint students with different exercise routines to improve their overall physical condition, progress from an intermediate level to a more advanced level. Routines are executed to upbeat music. (Repeatable 3 times) Course Level Fee 1 (1 Credits, 2 Lab/Lab-Discussion)

PED 152
Theory of Motor Learning
Provides a study of the different theories of the acquisition of motor skills and the nature of human locomotion. (3 Credits, 3 Lecture)

PED 160▼
Trap and Skeet Shooting
Basic techniques of shooting the shotgun clay target games of Trap and Skeet. Students will be familiarized with the safe handling, operation, and cleaning of shotguns and shot shell reloading. (Repeatable 3 times) Course Level Fee 4 (1 Credits, 2 Lab/Lab-Discussion)

PED 172
Bsc Act Elem/Sec Child
Focuses on games and activities for elementary and secondary level including body mechanics, basic exercises and rhythms. Includes team games for secondary level. EDU-101 is taken simultaneously. (2 Credits, 2 Lecture)

PED 183
Introduction to Physical Education
Focuses on the general scope, purpose, history, growth, and development of Physical Education. (3 Credits, 3 Lecture)

PED 185
B-Ball/V-Ball Sports Officiate
Focuses on the general scope of sports officiating. Successful completion of the class allows the student to write IHSA for the officials exam. (3 Credits, 3 Lecture)

PED 209▼
Aerobic Fitness
Class is designed to teach basic skills, rules and regulations, and to allow students to participate in weight training and cardiovascular activities. Student will be given a grade according to the number of minutes performed in the semester. (Repeatable 3 times) Course Level Fee 2 (1 Credits, 2 Lab/ Lab-Discussion)

PED 210▼
P/F Aerobic Fitness
Class is designed to teach basic skills, rules and regulations, and to allow students to participate in weight training and cardiovascular activities. Pass or Fail will be given at the end of the semester. (Repeatable 3 times) Course Level Fee 2 (1 Credits, 2 Lab/ Lab-Discussion)

PED 219▼
Karate III
Prerequisite: PED 123
Students have learned the basics and are ready for more advanced techniques. Higher physical and mental skills are emphasized. Greater confidence and awareness of personal ability will promote self improvement. (Repeatable 3 times) Course Level Fee 1 (1 Credits, 2 Lab/Lab-Discussion)

PED 223▼
Karate IV
Prerequisite: PED 219
Designed to be the final step for reaching the Black belt status. At this point the student will possess the knowledge, but must learn more self-control. Students will learn how to demonstrate power and all they have learned. (Repeatable 3 times) Course Level Fee 1 (1 Credits, 2 Lab/Lab-Discussion)

PED 224▼
Karate V
Prerequisite: PED 223
Introduces the student to leadership responsibilities and more advanced techniques. Emphasis will be placed on power and "fine" motor skills. (Repeatable 3 times) Course Level Fee 1 (1 Credits, 2 Lab/ Lab-Discussion)

PED 225▼
Karate VI
Prerequisite: PED 224
The final step for reaching the Black Belt status and learning the requirements for instruction. The student will be able to demonstrate all prior learned material and be able to instruct others as an assistant instructor. (Repeatable 3 times) Course Level Fee 1 (1 Credits, 2 Lab/ Lab-Discussion)

PED 226
Theory of Baseball
This course focuses on rules and history of baseball, basic skills, organizing practices, and acquiring a general knowledge of baseball. This prepares the student to teach and coach baseball. Course Level Fee 3 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

PED 227
Theory of Basketball
Students are taught the necessary skills to conduct classes and coach the sport of basketball. Drills, game techniques and strategies are practiced in the lab situation. Each student will teach a unit in basketball theory. Course Level Fee 1 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

PED 228
Tech Bowling/Golf
Prerequisite: PED 112 or PED 116 or consent of instructor
Course offered for the individual who is interested in how to teach or coach golf/ bowling. Course Level Fee 3 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

PED 243
Tech Badmntn/Tennis
Prerequisite: PED 137
Course offered for the individual who may show an interest in how to teach or coach tennis/badminton. Course Level Fee 1 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

PED 244
Kinesiology
Prerequisite: BIO 100 or BIO 299 or BIO 225
The study of functional musculoskeletal anatomy, muscle actions, and the laws of physics used in the performance of human motion. (4 Credits, 4 Lecture)

PED 285
Fitness for Life
An individual approach to assist students to develop a lifetime of wellness through fitness. The course includes a thorough physical fitness/risk factor assessment battery. Students will be required 2 hours of physical workout a week. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

PHYSICAL THERAPIST ASSISTANT (PTA---)

PTA 080
Fundamentals of PTA I
Prerequisite: Admission to Program
Corequisite: PTA-081
An introduction to the profession of Physical Therapy and the role of the PTA within the health profession. This course provides basic physical therapy skills including: body mechanics, transfers, bed mobility, gait training, aseptic techniques, and assessment of vital signs. (4 Credits, 3 Lecture, 2 Lab/ Lab-Discussion)

PTA 081
PTA Clinical Practicum I

Corequisite: PTA 080

An in-house laboratory practice of skills and techniques corresponding with Fundamentals of PTA I (PTA 080). Students will observe physical therapy settings. Course Level Fee 2 (1 Credits, 5 Lab/Lab-Discussion)

PTA 082
Fundamentals of PTA II

Prerequisite: PTA 080 and PTA 081

This course provides physical therapy skills including the use of therapeutic heat and cold, electrical stimulation, massage techniques, goniometry, wound management and laboratory practice. Students will be introduced to prosthesis and orthotics. Course Level Fee 1 (6 Credits, 4 Lecture, 4 Lab/Lab-Discussion)

PTA 085
PTA Clinical Practicum III

Prerequisite: PTA 080, PTA 081 and PTA 082

A full time, supervised clinical practice in a physical therapy facility. Students will participate in selected patient care skills and techniques learned in Fundamentals of PTA I (PTA080), Clinical Practicum I (PTA081) and Fundamentals of PTA II (PTA082). Course Level Fee 2 (3 Credits, 15 Lab/Lab-Discussion)

PTA 093
Pathology for PTA

Prerequisite: PTA 094 and PTA 095 and PTA 097

This course will discuss the etiology, symptoms, risk factors, pathogenesis, and prognosis of specific disease. Medical practices for treatment of these diseases and illnesses will be discussed along with special implications for the PTA. Pharmacology will also be discussed. (2 Credits, 2 Lecture)

PTA 094
Fundamentals of PTA III

Prerequisite: PTA 082 and PTA 085

This course is a continuation of the skills and knowledge used by a PTA. Concentration is on muscle testing, length testing, therapeutic exercise and postural analysis. Course Level Fee 2 (6 Credits, 3 Lecture, 6 Lab/Lab-Discussion)

PTA 095
Orthopedic Concepts & Appl

Prerequisite: PTA 085 and PTA 082 and PTA 094

The course focuses on orthopedic diagnoses and rehabilitation. (4 Credits, 3 Lecture, 2 Lab/ Lab-Discussion)

PTA 096
Fundamentals of PTA IV

Prerequisite: PTA 094 and PTA 095 and PTA 097

This course emphasizes assessment and treatment of specific areas. These areas include: neurological conditions, pediatrics, geriatrics, obstetrics, cardiopulmonary, industrial, and manual therapy. Course Level Fee 2 (5 Credits, 3 Lecture, 4 Lab/Lab-Discussion)

PTA 097
PTA Clinical Practicum IV

Prerequisite: PTA 085 and PTA 094 and PTA 095

Full time, supervised clinical practice experience at a physical therapy facility. Students will participate in selected patient care skills and techniques learned in Fundamentals of PTA III (PTA 094) and Orthopedic Concepts and Applications (PTA 095) while continuing to progress previously learned skills. Course Level Fee 2 (2 Credits, 10 Lab/Lab-Discussion)

PTA 098
PTA Seminar

Prerequisite: PTA 094 and PTA 095 and PTA 097

Preparation to enter into the work force as a Physical Therapist Assistant. This course emphasizes liability issues, Medicare guidelines, administration, health insurances, and ethical aspects. Licensure preparation and the exchange of clinical experiences are incorporated. (2 Credits, 2 Lecture)

PTA 099
PTA Clinical Practicum V

Prerequisite: PTA 097 and PTA 093 and PTA 096 and PTA 098

Final full time, supervised clinical practicum experience at a physical therapy facility to prepare as an entry level Physical Therapist Assistant. Student will perform selected previously learned skills. Course Level Fee 2 (4 Credits, 20 Lab/Lab-Discussion)

PHYSICS (PHY---)

PHY 110
Concepts of Physics

IAI P1 900L

Phenomena-oriented course, emphasizing everyday life applications for the general student. Elementary mechanics, electricity, heat and modern physics are studied. This course counts towards the general education science requirement. Course Level Fee 3 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

PHY 115
Astronomy

IAI P1 906

This course covers the history and future prospects of astronomy, the night sky, the Earth as compared to Venus and Mars, the death of stars, and cosmology. Emphasis is also placed on the influences that astronomy has had on culture. (3 Credits, 3 Lecture)

PHY 130
College Physics I

IAI P1 900L

Prerequisite: MAT 132 or High School Trigonometry

This course covers Newtonian Mechanics, heat, fluid motion. Intended for students in the pre-professional areas, arts and sciences, and four year technology majors. It is not intended for students who plan to major (or minor) in physics or engineering. Course Level Fee 3 (4 Credits, 3 Lecture, 3 Lab/Lab-Discussion)

PHY 131
College Physics II

Prerequisite: PHY 130

An introduction to electricity and magnetism, wave motion, optics and basic modern physics for pre-professional, arts and sciences, and four year technology majors. This course is to be taken with PHY-130 to form a complete sequence. Course Level Fee 3 (4 Credits, 3 Lecture, 3 Lab/Lab-Discussion)

PHY 140
University Physics I

IAI P2 900L

Prerequisite: Concurrent registration MAT 241

This is a study of Newtonian Mechanics. The course is for physics majors and minors, engineering students and the mathematically oriented student. This is the first of a three-course sequence. Course Level Fee 3 (4 Credits, 3 Lecture, 3 Lab/Lab-Discussion)

PHY 141
University Physics II

Prerequisite: PHY 140 with grade of 'C' or higher and MAT 242

This course is a study of heat, electricity, and magnetism for students in physics, engineering, chemistry, and mathematics. Course Level Fee 3 (4 Credits, 3 Lecture, 3 Lab/Lab-Discussion)

PHY 142
University Physics III

Prerequisite: PHY 141 with grade of 'C' or higher and MAT 243

This course is a study of wave motion, sound, light, and modern physics for students in physics, engineering, chemistry, and mathematics. Course Level Fee 3 (4 Credits, 3 Lecture, 3 Lab/Lab-Discussion)

PHY 239
Mechanics I

IAI EGR 942

Prerequisite: PHY 140 with grade of 'C' or higher and MAT 242

This course is a study of the mechanics of static, rigid bodies for engineering students. (3 Credits, 3 Lecture)

PHY 240
Mechanics II

IAI EGR 943

Corequisite: MAT 243 and MAT 245

Prerequisite: PHY 239 with grade of 'C' or higher

This course is a study of the motion of rigid bodies and systems of particles for engineering students. (3 Credits, 3 Lecture)

PHY 245
Solid Mechanics

Prerequisite: PHY 239 with grade of 'C' or higher

Corequiste: MAT 243

This course is the study of the relationship between the external loadings on a deformable object and the resulting deformations and internal stresses and strains. (3 Credits, 3 Lecture)

POLITICAL SCIENCE (POS---)

POS 160
American National Government
IAI S5 900
The fundamental principles of the American Government are summarized. Such topics as federalism, civil liberties, citizenship, parties and elections, the Presidency, Congress, Judiciary, and national policies and politics are discussed within the framework of the American Constitutional system. (3 Credits, 3 Lecture)

POS 162
State/Local Govern
IAI S5 902
Focuses on legal authority, structure, leadership and functions of state, county, city, township, and special district governments. The Illinois state constitution is analyzed. (3 Credits, 3 Lecture)

POS 264
Intro/Interntnl Rel
IAI S5 904N
An examination of the nation-state system and the sources of conflict in the international community. Comparative political economic systems are studied, as well as the rise of multi-national corporation and international organizations. (3 Credits, 3 Lecture)

PRACTICAL NURSING (PNC---)

PNC 049
Found of Nursing
Prerequisite: Admissions to the PN Program
An introduction to human anatomy and physiology beginning at the molecular level. Nutrition essentials are covered. These topics are related to nursing and disease prevention, promotion, maintenance and restoration. (6 Credits, 6 Lecture)

PNC 050
Practical Nursing I
Prerequisite: Admissions to the PN Program
Introduces the Practical Nurse's role as care provider and member of the interdisciplinary healthcare team. Includes concepts to provide a foundation for developing the knowledge, skills, and attitudes of the Practical Nurse. Course Level Fee 4 (10 Credits, 7 Lecture, 8 Lab/Lab-Discussion)

PNC 052
Practical Nursing II
Prerequisite: PNC 049 and PNC 050
This course is a continuation of PNC 050. Further develops the Practical Nurse's role and the development of the knowledge, skills, and attitudes needed to promote, maintain, and restore health for diverse populations. Clinical assignments expose students to a variety of settings and progress from simple to complex. Course Level Fee 4 (15 Credits, 11 Lecture, 11 Lab/Lab-Discussion)

PNC 053
Basic Pharmacology I
Corequisite: PNC 052
Prerequisite: Admission to PN Program
The nursing process and the role of drug therapy in the prevention of disease, promotion of health and treatment of disease provides the framework in this study of pharmacology and the administration of medication. Course Level Fee 3 (2 Credits, 2 Lecture)

PNC 054
Practical Nursing III
Prerequisite: PNC 052 and PNC 053
Continuation of PNC052 to further develop the Practical Nurse's role and development of knowledge, skills, and attitudes needed to provide health promotion, maintenance, and restoration for diverse populations. Clinical assignments progress. Includes leadership and preparation for entering the workforce. Course Level Fee 4 (7 Credits, 5 Lecture, 6 Lab/Lab-Discussion)

PNC 055
Basic Pharmacology II
Corequisite: PNC 054
Prerequisite: PNC 053
Continuation of PNC 053. The nursing process and the role of drug therapy in the prevention of disease, promotion of health and treatment of disease provides the framework in this study of pharmacology and the administration of medication. (1 Credits, 1 Lecture)

PRINT TECHNOLOGY (PMT---)

PMT 050
Print Technology I
This course provides a basic overview of the printing industry and the printing process from small job shops to large employer. (3 Credits, 3 Lecture)

PMT 052
Print Technology II
Prerequisite: PMT 050
Using Print Technology I as a basis for information this course outlines the overview of the industry but with emphasis on the various print processes. (3 Credits, 3 Lecture)

PMT 054
Electronic Prepress
Prerequisite: PMT 050 and PMT 052 or consent of instructor
This course provides a basic overview with a working understanding of the printing industry and the printing process and the knowledge it takes to go from idea to reality using Electronic Prepress techniques. Course Level Fee 1 (6 Credits, 12 Lab/Lab-Discussion)

PMT 074
Print Technology Seminar
Prerequisite: CIS 090 or CIS 097
Designed as an introduction to Print Technology and Desktop Publishing apprenticeship. Consists of an overview of print process and techniques used in the print industry. Focuses on print terminology and hands-on experience. (1 Credits, 1 Lecture)

PMT 075
Print Tech Apprenticeship
Corequisite: PMT 074
Designed to provide employment experience in a position that will utilize and develop print technology skills. (6 Credits, 30 Lab/Lab-Discussion)

PROGRAMMABLE LOGIC CONTROLLERS (PLC---)

PLC 040
Fundamentals of Instrumentation
Fundamentals of DC and AC, methods of analysis, capacitance, inductance, magnetism, simple transients, and transformers. Analysis of circuits using a variety of theorems and reasoning. Multisim software is utilized to simulate methods of analysis. (3 Credits, 3 Lecture)

PLC 050▼
PLC I-Allen Bradley SLC5/0x
This course covers basic PLC operation and programming using RsLogix 500 software and Allen Bradley SLC 5/0x processors. Topics include: Serial and Ethernet communications, Basic ladder design, Input-Output, Timers, Counters, Batch Processes, Shift registers, Sequencers, Word compare, Math, and hardware. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

PLC 060▼
PLC II-Allen Bradley SLC5/0x
Prerequisite: PLC 050
This course covers advanced topics of the Allen Bradley SLC 50/x series PLCs operation and programming using Rslogix500 software and Allen Bradley SLC-5/0x PLCs. Topics include Analog I/O (Scaling, Ramping, PID), advance Math, Data handling instruction, and program flow. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 1.5 Lecture, 3 Lab/Lab-Discussion)

PSYCHOLOGY (PSY---)

PSY 271
Intr/Psychology
IAI S6 900
Focuses on psychology as a science, introducing concepts and research in a variety of subfields, including neuroscience, sensation and perception, consciousness, learning and memory, cognition, motivation and emotion, development, personality, disorders and therapy, and social psychology. (3 Credits, 3 Lecture)

PSY 273
Abnormal Psychology
IAI PSY 905
Prerequisite: PSY 271
Takes an integrative approach to psychopathology. Areas of study include research methods; clinical assessment and diagnosis; descriptions, causes, and treatments of the major psychological disorders; and legal and ethical issues in abnormal psychology. (3 Credits, 3 Lecture)

PSY 274
Child Development
IAI S6 903
Study of theories and methods used to study development, from conception to adolescence. Topics include physical, sensory and perceptual, cognitive, language, emotional, social, and gender development, as well as family, peer, and institutional influences on development. (3 Credits, 3 Lecture)

PSY 275
The Psychology of Maturity and Old Age
IAI S6 905
Prerequisite: PSY 271
Study of theories and research findings in the physical, cognitive, and social-emotional development of individuals past middle age. (3 Credits, 3 Lecture)

PSY 277
Social Psychology
IAI S8 900
Prerequisite: PSY 271
Study of social behavior including research methods, attitude formation and changes, social cognition, interpersonal relations, group processes, and social influences. (3 Credits, 3 Lecture)

PSY 278
Family Relations
IAI S7 902
Examines how intimate relationships are formed and maintained and why they sometimes fail. Theory and research on attraction, social cognition, communication, interdependency, friendship, love, sexuality, conflict, power, and violence are areas of focus. (3 Credits, 3 Lecture)

PSY 279
Human Dev/Life Span
IAI S6 902
Study of theories and research findings in physical, cognitive, and social-emotional development from conception through death. (3 Credits, 3 Lecture)

RADIO-TV BROADCASTING (RTV---)

RTV 070
Radio Production Lab
Prerequisite: RTV 160
The further application of the techniques of good broadcasting is covered including announcing, writing, managing, and working for a station image. Operation of various automation systems, along with air work on the college radio station is emphasized. Course Level Fee 2 (5 Credits, 1 Lecture, 8 Lab/Lab-Discussion)

RTV 072
Fall Sportscasting
This course is designed to give a background in announcing various sporting events. Experience includes broadcasting fall sports at local high schools and Lake Land College on WLKL, Lake Land College's radio station. Training of broadcast equipment is also included. Course Level Fee 1 (1 Credits, 2 Lab/Lab-Discussion)

RTV 073
Spring Sportscasting
This course is designed to improve basketball, baseball and softball announcing skills. Training and practice of sportscasting continues with coverage of Lake Land College and high school sporting events on WLKL, Lake Land College's radio station. Course Level Fee 1 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

RTV 082
Fall Athletic Announcing
This course is designed to refine sports announcing skills. Experience includes broadcasting fall sports at local high schools and Lake Land College on WLKL, Lake Land College's radio station. Training of broadcast equipment is also included. Course Level Fee 1 (1 Credits, 2 Lab/Lab-Discussion)

RTV 083
Spring Athletic Announcing
This course is designed to enhance basketball, baseball and softball announcing skills. Experience includes broadcasting high school and Lake Land College sports on WLKL, Lake Land College's radio station. The fundamentals of play-by-play color commentary, analysis, and interviewing are included. Course Level Fee 1 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

RTV 150
Introduction to Broadcasting
IAI MC 914
Emphasis is placed on all aspects of the broadcasting industry including history, digital radio, high definition television, programming, the FCC, advertising, and responsibility to society. A brief explanation of the technical operations of a station is presented. (3 Credits, 3 Lecture)

RTV 155
Radio TV Announcing
IAI MC 918
The principles of broadcast announcing are discussed and are applied to reading commercials, news, voice tracking, sports, and on-air music announcing. Interviewing techniques and the relationship between the announcer and the public are included. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

RTV 160
Radio Station Operation
IAI MC 915
A practical demonstration course to begin "on air" work. In addition to air time, other duties such as news gathering, production, programming, etc. are assigned. Reading meters, filling out operating logs and editing audio are also incorporated. Course Level Fee 2 (5 Credits, 2 Lecture, 6 Lab/Lab-Discussion)

RTV 165
Broadcast Writing
IAI MC 917
The principles of broadcast journalism and copy writing are presented along with oral style, editing, rewriting stories, and writing commercials that sell. The legal aspects of libel and slander are discussed. Course Level Fee 2 (4 Credits, 4 Lecture)

RTV 175
Broadcast Sales
Broadcast selling principles from the Radio Advertising Bureau are presented. Conducting a client needs analysis and servicing an account are stressed. Analysis of surveys is included. The Radio Marketing Professional national exam is given as part of the course. Course Level Fee 2 (3 Credits, 3 Lecture)

RTV 180
Basic TV Production
IAI MC 916
The course is designed to acquaint students with various aspects of professional TV studio production. Technical proficiency in basic camera operation direction and non-linear editing are stressed. Actual production of interviews, commercials, and news are included. Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

RTV 185
Advanced Radio Production
Prerequisite: RTV 070
In this course students polish the skills and techniques of boardwork, announcing, voice tracking, news and sports writing, and production. The importance of promotion, management of station personnel, and programming a station for profit are stressed. Course Level Fee 2 (4 Credits, 1 Lecture, 6 Lab/Lab-Discussion)

RTV 190
Basic Animation
IAI MC924
Students will be introduced to the newest trends in Multimedia Technology. Emphasis will be placed on developing aptitude in DVD authoring, postproduction software, animation, streaming media, shooting video, editing, lighting, and audio. The course will be primarily project based. Course Level Fee 1 (3 Credits, 1 Lecture, 4 Lab/Lab-Discussion)

READING (RDG---)

RDG 007▼
Fundamentals of Reading
Required of students who need additional preparation before enrolling in RDG 009. Essentials of Reading. Emphasis is placed on basic reading skills including phonics, spelling, vocabulary, comprehension and critical reading. Placement determined by assessment. (Repeatable 3 times) Course Level Fee 2 (2.5 Credits, 2 Lecture, 1 Lab/Lab-Discussion)

RDG 009▼
Essentials in Reading
Prerequisite: RDG-007 Minimum grade of 'C' or better or placement determined by assessment.
Required of students who need additional preparation before enrolling in Reading and Study Skills (RDG 050). Emphasis is placed on six competencies, a personal reading plan, and a computerized prescriptive reading program. (Repeatable 3 times) Course Level Fee 2 (2.5 Credits, 2 Lecture, 1 Lab/Lab-Discussion)

RDG 013
Preparation for ACT/SAT
Designed to prepare students taking the ACT/SAT exams. Emphasis is placed on performance skills in word usage, math, reading in the content areas, and natural science. (This course does not apply toward an Associate Degree) (1 Credits, 1 Lecture)

RDG 050▼
Reading and Study Skills I
Prerequisite: RDG 009 with a grade of 'C' or higher or placement determined by assessment
Designed to improve reading-study skills with major emphasis on comprehending college textbooks. Stress is placed on techniques for improving individual skills in listening, note-taking, study-type reading, time management, perception, library access, test-taking, memory, flexible rate, skimming/scanning. This course does not apply toward an Associate Degree. (Repeatable 3 times) Course Level Fee 2 (2.5 Credits, 2 Lecture, 1 Lab/Lab-Discussion)

RDG 051
CTE Reading-Study Skills
Prerequisite: RDG 009 with a grade of 'C' or higher or placement determined by assessment
This course is designed to improve reading-study skills with emphasis on comprehending textbooks and contextualized course work. It will include multiple context methods for improving technical reading. This course does not apply toward an Associate degree. Course Level Fee 2 (2.5 Credits, 2 Lecture, 1 Lab/Lab-Discussion)

RECREATION (REC---)

REC 180
Leadership/Recreat
A theoretical overview of topics of leadership, group dynamics, and motivation as they relate to the field of recreation, and how it can be applied to specific situations. (3 Credits, 3 Lecture)

REC 181
Intro/Comm Recreat
To introduce to the student the historical development of the recreation profession in the United States and to give the student an exposure to professional recreational organizations and their services. (3 Credits, 3 Lecture)

REC 190
Camping
Students have the opportunity to learn outdoor living skills, camping equipment and techniques, orienteering skills. Two camping trips will be taken during the semester. Course Level Fee 4 (2 Credits, 0.5 Lecture, 3 Lab/Lab-Discussion)

REC 290
Recreation for Special Groups
Provides an introduction to concepts and principles of therapeutic recreation, type of illnesses and disability settings, programming and service, and the role of the therapeutic re-creator. (3 Credits, 3 Lecture)

SERVICE LEARNING (SLN---)

SLN 200
Community Service
A course based on a multi-disciplinary project coordinating community service efforts through an established organization. Individual students self-assess their learning outcomes and make applications to personal educational goals, establishing a sense of community commitment. (Variable Credit 0.5/3 Credits, 3 Lecture)

SOCIAL SCIENCE (SOS---)

SOS 050
Human Relations
Provides an understanding of the human mechanism when associated with interpersonal relationships on the job. Emphasis is placed on vocational problems connected with motivation, communication, perception and how to work with others. (2 Credits, 2 Lecture)

SOS 099
American Culture
This course will provide a survey of the major intellectual, literary and cultural developments in the United States from the colonial period to the present. The course mainstreams the contributions of America's diverse cultural constituency. (3 Credits, 3 Lecture)

SOS 235
Death and Dying
This course focuses on the psychological and sociological effects of dying and death in our modern American Culture. Major areas studied are: psychological changes a dying person experiences; survivors and grief; death and the child; the funeral; demography of death; contemporary issues. (3 Credits, 3 Lecture)

SOS 283
Introduction to Research Methods
Prerequisite: Placement by assessment or MAT 006 with a minimum grade 'C' or ENG 120 with a minimum grade of 'C'.
Examination of social science research methods from theoretical, applied and ethical points of view. Acquaints students with qualitative and quantitative techniques and procedures used to measure human behavior, gather and analyze data, and evaluate and report on findings. Course Level Fee 2 (3 Credits, 3 Lecture)

SOCIOLOGY (SOC---)

SOC 280
Introduction to Sociology
IAI S7 900
Study of human interaction focusing on social influences shaping personality, structure and dynamics of human society. Topics include: sociological perspective, culture, society, social interaction; social change in global perspective; socialization; families; social class; and social stratification; race and ethnicity; and deviance. (3 Credits, 3 Lecture)

SOC 282
Social Problems
IAI S7 901
An issue oriented course. Among the issues covered are how sociologists view social problems, the changing family, poverty, race and ethnic relations, aging, crime and criminal justice, human sexual behavior, problems of physical and mental illness, urban problems, and other areas based upon student interests. (3 Credits, 3 Lecture)

SOC 284
Sociology/Deviant Behavior
Nature and dynamics of deviant behavior. The course includes theories of deviance, social control and forms of deviant behavior. Forms may include drug use, sexual behavior (prostitution and pornography), personal violence, crime and delinquency and mental disorders. (3 Credits, 3 Lecture)

SOC 286
Racial and Ethnic Groups
IAI S7 903D
An examination of American racial and ethnic diversity with an attempt to understand racial and ethnic relations. The examination is made emphasizing the sociological perspective while including material from the other social sciences. (3 Credits, 3 Lecture)

SPEECH (SPE---)

SPE 111
Intro to Speech Communication
IAI C2 900
Focuses on the fundamental principles and methods of selection, analyzing, organizing, developing and communicating information, evidence, and points of view to audiences. (3 Credits, 3 Lecture)

SPE 200
Interpersonal Communication
Principles and practices of oral communication emphasizing message formation and delivery, listening, perception, awareness of verbal and non-verbal codes, and managing conflict. (3 Credits, 3 Lecture)

SPE 213
Intro/Group Discussion
Focuses on the principles and application of public and closed group discussions with emphases on purposes and common forms, critical analyses and participation. (3 Credits, 3 Lecture)

SPE 220
Persuasive Speaking
Studies audience attitudes, logical lines of reasoning, and emotional appeals used in causing an audience to accept different views or to adopt recommended courses of actions. (3 Credits, 3 Lecture)

SPE 244
Intro to Acting
IAI TA 914
Focuses on approaches to acting with emphasis on basic techniques and the development of character as it relates to the role. (3 Credits, 3 Lecture)

STRATEGIES FOR SUCCESS (SFS---)

SFS 101
Strategies for Success
Designed to improve student performance in college and beyond. Topics include: college resources; identification of college and career goals; implementation of study, note-taking, and test-taking strategies; and development of life management skills including time management, stress management, and relationship skills. (2 Credits, 2 Lecture)

SFS 102
Strategies for Money Management
Designed to improve student money management and investment skills. Topics include budgeting, banking, managing credit and debt, paying tuition and loans, saving, investing, and planning for retirement as well as protecting and recovering from identity theft and understanding advertising. (1 Credits, 1 Lecture)

SFS 103
Life Strategies
Designed to assist students in improving critical thinking skills, designing effective goals and creating a successful life and financial management plan. Emphasis will be placed on career and transfer advancement as well as financial planning. (3 Credits, 3 Lecture)

STUDY ABROAD (STA---)

STA 200▼
Short Term Study Abroad
This course serves as an introduction to short-term study abroad opportunities. It will focus on the various challenges of traveling and learning in another country, cultural awareness, cross-cultural sensitivity, intercultural communication, and adaptability to a new culture. (Repeatable 3 times) (Variable Credit 0.5/4 Credits, 4 Lecture, 6 Lab/Lab-Discussion)

TECHNOLOGY (TEC---)

TEC 039▼
Technology Seminar
Fundamentals, principals, and practices of Industrial technology. Covers basic through advanced procedures associated with current technology. Advanced work is adjusted to special interest groups. (Repeatable 3 times) (Variable Credit 0.5/3 Credits, 3 Lecture)

TEC 040
Blueprint Reading for Industry I
Fundamentals, principles, and practices involved in producing and reading industrial blueprints. Covers basic through advanced blueprint reading and basic drafting procedures. Advanced work is adjusted to special interest groups. (2.5 Credits, 2.5 Lecture)

TEC 043
Industrial Safety
Designed to give the student basic information and procedures concerning industrial safety awareness and accident prevention. Course Level Fee 3 (1 Credits, 1 Lecture)

TEC 044
Basic Tech Science
Prerequisite: TEC 048 or consent of instructor
Involves activities relating to (1) basic properties of matter, (2) speed and acceleration, (3) mechanics, (4) electricity and (5) miscellany. Automotive applications are emphasized and memorization minimized. Course Level Fee 1 (3 Credits, 1.5 Lecture, 3 Lab/Lab-Discussion)

TEC 045
Introduction to Drafting
Presents basic drafting skills and concepts preparatory to advanced drafting and computer-aided drafting courses. Portable drafting instruments will be required. Course Level Fee 1 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

TEC 046
Manufacturing Skills I
Develops a basic understanding of units of measurement and measurement techniques used in the manufacturing industry. Fundamentals of creating technical drawings and various manufacturing skills. Research in careers, history and current events in the manufacturing industry. Course Level Fee 1 (2 Credits, 0.5 Lecture, 3 Lab/Lab-Discussion)

TEC 047
Manufacturing Skills II
Prerequisite: TEC 046
Continuation of TEC 046. Students continue study of hydraulics, pneumatics, electrical systems, mechanical drive systems, automated material handling (robotics), quality control systems, machining, and computer aided drafting. Course Level Fee 1 (2 Credits, 0.5 Lecture, 3 Lab/Lab-Discussion)

TEC 048
Applied Shop Computations
Focuses on basic arithmetic and calculations necessary for solving shop oriented problems involving geometric figures, formulas and algebra. Students draw graphs. A scientific calculator is required, so there is little or no memorization. (3 Credits, 3 Lecture)

TEC 049
Prerequisite: TEC 047
This class is a continuation of TEC 047. Heaviest concentration is on electrical theory, motors and controls. Additional time will be spent on Quality Assurance, Fluid Power, and Mechanical Drive Systems. Course Level Fee 1 (2 Credits, 0.5 Lecture, 3 Lab/Lab-Discussion)

TEC 050
Technical Math I
Fundamentals of basic arithmetic, calculator usage, algebra, geometry and right angle trigonometry. (2 Credits, 2 Lecture)

TEC 051
Manufacturing Skills IV
Prerequisite: TEC 049
This class is a continuation of TEC 049. Heaviest concentration is on Programmable Logic Controllers. Additional time will be spent on Fluid Power, Mechanical Drive Systems, and Electrical Motor Controls. Course Level Fee 1 (2 Credits, 0.5 Lecture, 3 Lab/Lab-Discussion)

TEC 052
Technical Math II
Prerequisite: TEC 050
Offers the student an in-depth study of algebra including factoring, solving linear systems, quadratic equations and exponents. (2 Credits, 2 Lecture)

TEC 053▼
Technical Project Management
This course is designed to provide a technical foundation for Project Management. Students will evaluate comprehensive samples of various tools and techniques for industrial project, program, and portfolio management that achieve organizational success. (3 Credits, 3 Lecture)

TEC 054
Technical Math III
Offers the student a more in-depth study of trigonometry plus logarithms, complex numbers and functional variation. (2 Credits, 2 Lecture)

TEC 055▼
Special Topics in Technology
Fundamentals, principals, and practices of Industrial Technology. Covers basic through advanced procedures associated with current technology. Advanced work is adjusted to special interest groups. (Repeatable 3 times) (Variable Credit 0.5/5 Credits, 5 Lecture)

TEC 056
Technical Math IV
Prerequisite: TEC 054
Familiarizes the student with the basic concepts of analytical geometry and statistics. (2 Credits, 2 Lecture)

TEC 057▼
Introduction to Renewable Energy
This course provides students with an introduction to forms of renewable energy, how it is produced and utilized. Topics include photovoltaic, geothermal, solar, wind, hydro, and biomass energy production. (Repeatable 3 times) (3 Credits, 3 Lecture)

TEC 058▼
Alternative Energy
This course provides students with an introduction to forms of alternative energy. Topics include fuel cells, electric powered vehicles, liquefied natural gas, and other emerging green technologies. (Repeatable 3 times) (3 Credits, 3 Lecture)

TEC 059▼
Energy Management
This course prepares participants to assess and improve homes according to current industry standards for residential and commercial building weatherization. It includes blower-door testing, recommended weather sealing techniques, and building automation systems. (Repeatable 3 times) Course Level Fee 2 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

TEC 060
Analytical Mechanic
Prerequisite: TEC 052
Enables the student to analyze forces acting on structural elements and rigid bodies. The concepts of stress and strain in structural materials is introduced. Course Level Fee 1 (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

TEC 062▼
Solar Thermal Applications
Applications of solar energy collection and utilization emphasizing solar hot water heating and space heating for domestic use. Fundamentals for residential sizing, installation, operation, and maintenance of open-loop and draindown water heating systems will be covered. (Repeatable 3 times) (2 Credits, 1.5 Lecture, 1 Lab/Lab-Discussion)

TEC 063
Electric Power Distribution
Prerequisite: EET 050 and TEC 054
Fundamentals of the electric power distribution and transmission system, infrastructure components, power flows, and system reliability. (3 Credits, 3 Lecture)

TEC 064▼
Bioenergy
Fundamentals of energy use and production from biogas, biofuels, and biomass including production methods, domestic and industrial uses, and sustainability of the market. (Repeatable 2 times) (3 Credits, 3 Lecture)

TEC 065▼
Energy Efficiency
Fundamentals of energy transfer, distribution, conservation, and efficiency as it relates to residential, commercial, and industrial use. (Repeatable 3 times) (3 Credits, 3 Lecture)

TEC 066▼
Resource Sustainability
This course will examine sustainable energy generation and use, housing sustainability, water use, recycling, resource reduction, and cultural issues relating to lifestyles of health and sustainability. (Repeatable 3 times) (3 Credits, 3 Lecture)

TEC 067▼
Smart Grid Introduction
Fundamentals of the electrical smart grid including conventional and distributed electrical generation and transmission, renewable energy issues, electrical system operability, demand response, and smart metering. (Repeatable 3 times) (3 Credits, 3 Lecture)

TEC 068▼
Sp Topics Renewable Energy
This course will examine fundamentals, principles ,practices, and issues associated with special topics in renewable energy. It covers basic through advanced issues and topics associated with sustainability and the renewable energy field. Advanced coursework is adjusted to special interest groups. (Repeatable 3 times) (Variable Credit 0.5/5 Credits, 5 Lecture)

TEC 069▼
Site Assessment for Renewable Energy
This course determines the site-specific suitability of photovoltaic, solar thermal applications, and small wind energy installations. The course will focus on physical site features and how that affects the solar window and the quality of wind energy. (Repeatable 3 times) Course Level Fee 1 (2 Credits, 1.5 Lecture, 1 Lab/Lab-Discussion)

TEC 070
Properties of Metal
Familiarizes the student with the need for heat treatment of metals and the processes and techniques used and the resulting effects. Also includes a study of the machinability of metals and the contributing physical and metallurgical factors. (2.5 Credits, 2.5 Lecture)

TEC 071▼
OSHA General Safety
This OSHA safety course provides entry level construction or general industry workers information about their rights, employer responsibilities, and how to file a complaint as well as how to identify, abate, avoid and prevent hazards on a job site. (Repeatable 3 times) Course Level Fee 2 (0.5 Credits, 0.5 Lecture)

TEC 080
Strength/Materials
Prerequisite: TEC 060
Develops the student's ability to analyze structural elements subjected to various types of loading. Various means of joining structural elements are also covered. (4 Credits, 4 Lecture)

TEC 090
Education-To-Careers
This course provides students with orientation for transitioning from education to careers including interview techniques, resume writing, job search strategies, personal growth and finance. (3 Credits, 3 Lecture)

TEC 103
Engineering Graphics
IAI EGR 941
This course provides an in-depth study of engineering graphics communication using mechanical drafting as well as computer-aided drafting programs. The students will learn drafting standards, visualization skills, design, CAD, and descriptive geometry. Drafting equipment and workbook are required. Course Level Fee 1 (3 Credits, 1 Lecture, 5 Lab/Lab-Discussion)

TELECOMMUNICATIONS (TEL---)

TEL 045
Intro to Telecommunications
Provides students with an introduction into the field of telecommunications. Emphasis is placed on telecommunication technology and the different network communication operations. (3 Credits, 3 Lecture)

TEL 046
Digital Communications
Prerequisite: EET 040 and EET 050
Designed for students to learn about the basic digital systems and how they operate. Emphasis place on trouble shooting techniques. (4 Credits, 3 Lecture, 2 Lab/Lab-Discussion)

TEL 048
Advanced Digital Services
Prerequisite: TEL 047
Designed to enable students to understand the technical operations of high speed switching and protocols associated with data transfer. Emphasis placed on: bandwidth, ADSL, CCS7, LNP, and Voice over IP. (6 Credits, 4 Lecture, 4 Lab/Lab-Discussion)

TEL 051
Networking Basics
Corequisite: EET 060 or consent of instructor
Provides the student with a basic understanding of networking, OSI model, industry standards, and IP addressing. Emphasis placed on hands on learning. (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

TEL 052
Routing Basics
Prerequisite: TEL 051
Provides the student with a basic understanding of router configurations and router protocols. Emphasis placed on hands on learning. (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

TEL 053
Switching and Routing
Prerequisite: TEL 052
Provides the student with an understanding of LAN switching and advanced router configurations. Emphasis placed on hands on learning. (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

TEL 055
Telephony
Prerequisite: TEL 045 and EET 050
Provides students with an strong understanding of Telephony and the skills needed to install, troubleshoot and maintain both residential and commercial PBX phone systems. (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

TEL 056
Outside Plant I
Prerequisite: TEL 045
This course focuses on the basic skills required for a field technician in telecommunications. Emphasis is placed on skills in pole climbing, bucket truck operation, and residential installations. Course Level Fee 3 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

TEL 057
Telecom Troubleshooting
Prerequisite: TEL 055
Designed to enable students to understand troubleshooting techniques used for transmission and signaling systems. Course Level Fee 1 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

TEL 061▼
Outside Plant II
Prerequisite: TEL 056
This course focuses on the basic skills required for a field technician in telecommunications. Emphasis is placed on skills in aerial cable installation and maintenance, underground cable installation, horizontal boring and backhoe operations. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

TEL 096
Telecommunications Seminar
The student will be introduced to the local employers and experts in telecommunications and hear their thoughts on the issues that effect the telecommunication industry. (1 Credits, 1 Lecture)

TEL 097
Telecommunications S.O.E.
Prerequisite: Sophomore standing in the Telecommunications (093) program
Designed to provide the student with work experience in the field of major while maintaining contact with the instructor for review and assistance. (3 Credits, 15 Lab/ Lab-Discussion)

TUTORING AND TESTING (TUT---)

TUT 011▼
Basic Indust Communications
(Repeatable 3 Times) (1 credits, 1 Lecture)

TUT 013▼
Basic Memory Dynamics
Repeatable 3 Times) (0.5 credits, 0.5 Lecture)

TUT 023
Test Taking Strategies
(Repeatable 3 Times) (1 credits, 1 Lecture)

TUT 026
Relieving Computer Anxiety
Repeatable 3 Times) (0.5 credits, 0.5 Lecture)

WELDING (WEL---)

WEL 042
Introduction to Welding
This course prepares students to identify, obtain and keep jobs in the welding field. Demonstrating appropriate work behaviors, developing effective working relationships with others, practicing work related communication skills, understanding roles, business images and adapting to change. (3 Credits, 3 Lecture)

WEL 044
Metal Identification
This course prepares students to identify ferrous and non-ferrous metal using various test procedures, Procedures for identifying low, medium and high carbon steel are also covered. Course Level Fee 1 (1 Credits, 0.5 Lecture, 1 Lab/Lab-Discussion)

WEL 045
Oxy-Acetylene Welding
This course prepares students to manipulate, set-up and make acceptable welds in various positions using oxy-acetylene equipment. Course Level Fee 1 (2 Credits, 0.5 Lecture, 3 Lab/Lab-Discussion)

WEL 046
Metal Cutting Processes
This course covers the processes for cutting metal with oxy-acetylene and plasma cutting equipment and gouging with air carbon arc equipment. Course Level Fee 1 (2 Credits, 0.5 Lecture, 3 Lab/Lab-Discussion)

WEL 047
Shielded Metal Arc Welding I
Prerequisite: WEL 057
This course provides an introduction to shielded metal arc welding. Students learn to set up equipment, identify electrodes, strike and run beads in the flat position. Course Level Fee 1 (2 Credits, 0.5 Lecture, 3 Lab/ Lab-Discussion)

WEL 048
Shielded Metal Arc Welding II
Prerequisite: WEL 057
In this course students learn to perform single and multiple pass welds with shielded metal arc welding equipment in all positions. Course Level Fee 1 (3 Credits, 0.5 Lecture, 5 Lab/ Lab-Discussion)

WEL 049
Shielded Metal Arc Welding III
This course requires students to weld in all positions suing SMAW equipment. These welds must pass a guided bend test. Course Level Fee 1 (3 Credits, 0.5 Lecture, 5 Lab/ Lab-Discussion)

WEL 053
Gas Tung Arc Welding/Alum
Prerequisite: WEL 057
Prepares students with the necessary knowledge and skills for employment in industry. Emphasis is placed on gas tungsten arc welding processes for aluminum. Prepare welding joints in the flat, horizontal, and vertical positions. Course Level Fee 3 (4 Credits, 1 Lecture, 6 Lab/Lab-Discussion)

WEL 054
Gas Tung Arc/Ss
Prerequisite: WEL 057
Prepares students with necessary knowledge and skills for employment in industry. Emphasis is placed on gas tungsten arc welding processes for stainless steel. Prepare welding joints of stainless steel in the flat, horizontal, and vertical positions. Course Level Fee 3 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

WEL 055▼
Pipefitting & Welding
Prerequisite: WEL 057
This is a basic course in pipefitting and welding equipment and safety. Topics include: fabrication and installation of industrial piping systems, pipe layout and welding techniques/ applications. (Repeatable 3 times) Course Level Fee 3 (3 Credits, 1 Lecture, 4 Lab/ Lab-Discussion)

WEL 056▼
Metal Cutting and Fabrication
This course is designed to provide an understanding of metal cutting and fabricating processes and weld joint design.(Repeatable 3 times) Course Level Fee 3 (2 Credits, 1 Lecture, 2 Lab/Lab-Discussion)

WEL 057
Welding Fundamentals
Course will cover basic welding processes, including: Oxy-Acetylene welding, Arc welding, Cutting and Brazing. Course Level Fee 3 (2.5 Credits, 1 Lecture, 3 Lab/Lab-Discussion)

WEL 058
Gas Metal Arc Welding I
Prerequisite: WEL 057
This course introduces gas metal arc welding procedures and equipment. Students learn to perform single and multiple pass welds in the flat position with gas metal arc welding equipment. Course Level Fee 1 (2 Credits, 0.5 Lecture, 3 Lab/Lab-Discussion)

WEL 059
Gas Metal Arc Welding II
Prerequisite: WEL 057
This course teaches students to perform gas metal arc welds in the horizontal, vertical and overhead positions using single and multiple pass welds. Course Level Fee 1 (3 Credits, 0.5 Lecture, 5 Lab/Lab-Discussion)

WEL 060
Gas Metal Arc Welding III
Prerequisite: WEL 059
Students in this course must prepare gas metal arc and flux core welds which pass guided bend tests. Course Level Fee 1 (3 Credits, 0.5 Lecture, 5 Lab/Lab-Discussion)

WEL 061
Gas Tungsten Arc Welding
Prerequisite: WEL 057
This course introduces students to gas tungsten arc welding equipment and procedures. Welds are prepared in flat, horizontal and vertical positions on both ferrous and non-ferrous metals. Course Level Fee 1 (3 Credits, 0.5 Lecture, 5 Lab/Lab-Discussion)

WEL 062
Welding Blueprint Read/Layout
This course teaches students to read and interpret welding symbols and blueprints and to perform a minor welding layout. Math skills especially fractions are emphasized, reviewed and reinforced throughout this course. Course Level Fee 1 (3 Credits, 0.5 Lecture, 5 Lab/ Lab-Discussion)

WEL 063
Advanced Welding
Prerequisite: WEL 057
Course will cover advanced procedures of processes related to welding. MIG, TIG, plasma torch, and arc welding. Course Level Fee 2 (2 Credits, 0.5 Lecture, 3 Lab/Lab-Discussion)

WEL 074
Welding S.O.E.
Prerequisite: WEL 051 and TEC 048
Welding supervised occupational experience in a welding shop or work related manufacturing company position. (Variable Credit 0.5/5 Credits, 25 Lab/Lab-Discussion)

WIND TECHNOLOGY (WND---)

WND 040▼
Introduction to Wind Technology
This course provides students with an understanding of basic wind technology concepts. Topics include turbine parts and operation, anemometry data collection and

analysis, and evaluation of basic turbine technology. (Repeatable 3 times) (3 Credits, 3 Lecture)

WND 041▼

Wind Technology Maintenance I

Prerequisite: WND 040 and MET 040 and MET 042 and TEC 048 or WND 040 and EET 040 and EET 050 and TEC 050 and TEC 052;

This course introduces students to wind turbine maintenance. Lectures focus on gearbox and electrical system maintenance while the labs focus on tools, climbing and safety. (Repeatable 3 times) Course Level Fee 2 (3 Credits, 2 Lecture, 2 Lab/Lab-Discussion)

WND 042▼

Tower Rescue and Competent Climber

Prerequisite: WND 041

This course prepares the students to safely climb a variety of wind turbine towers and to safely and effectively perform self rescue and partner rescue techniques in emergency situations. (Repeatable 3 times) Course Level Fee 4 (0.5 Credits, 1 Lab/Lab-Discussion)

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Custodian

Tammy Cantwell
Custodian

Margie Conour
Custodian

Phyllis Guyette
Custodian

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Jarrold Jennings
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Jared Bitzan
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Karla Miller
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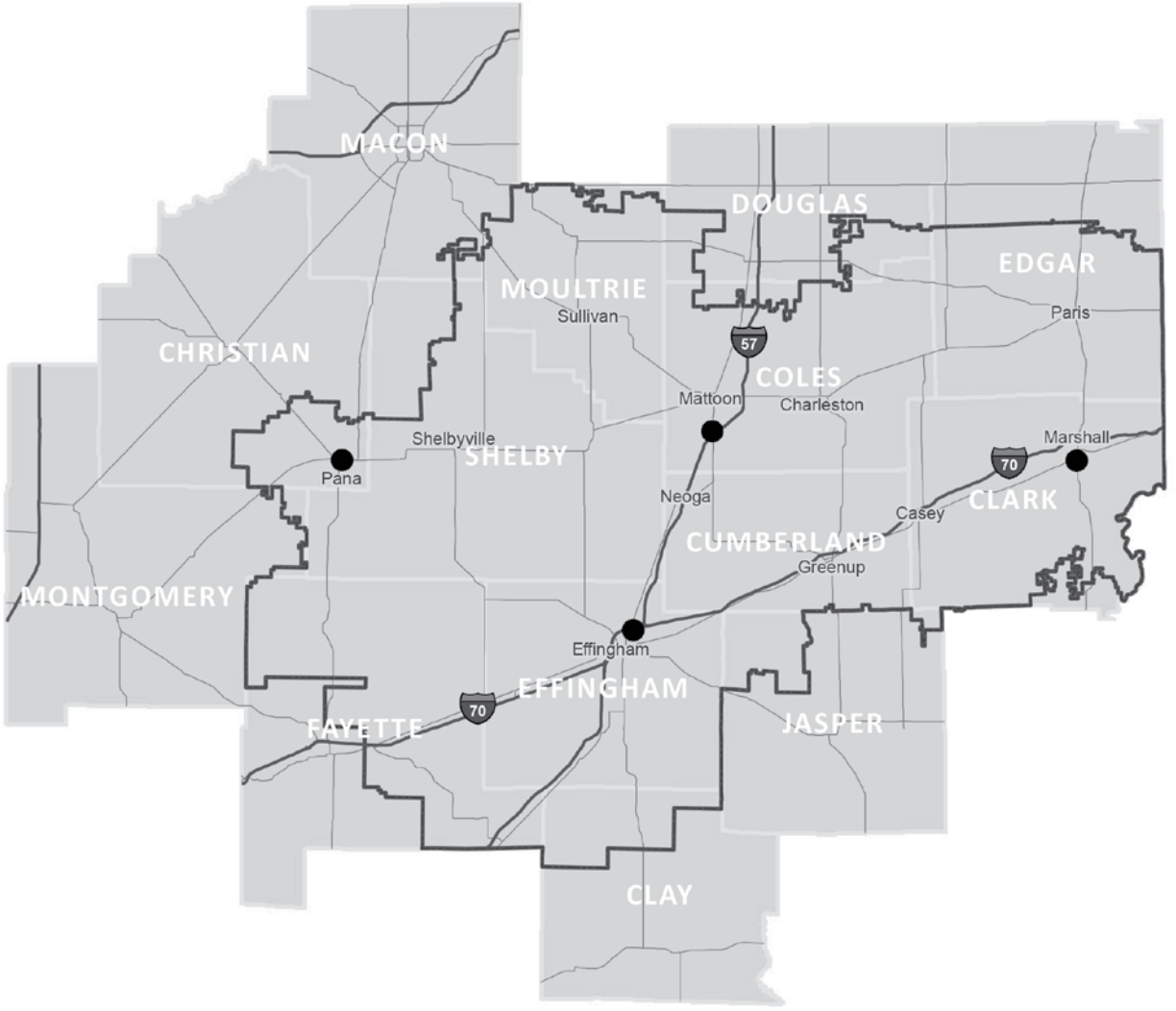
LAKE LAND COLLEGE DISTRICT #517



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