

Draft 1.1 - 8.15.20

Greenville University - Lake Land College Associate of Science Degree--Pre-Engineering Transfer Program Guide - Engineering

Completion of an Associate in Arts or Science degree at Lake Land College fulfills Greenville University's lower division general education requirements. Upon acceptance, students will need to fulfill program and university requirements at Greenville.

This "Transfer Program Guide" is an *example* of a proposed curriculum for students to use while completing their associate degree. Reading, writing and math placement could alter the course sequencing and transfer date. Therefore, students should begin sequencing their reading/writing (if applicable), math and science courses during the first semester, paying close attention to prerequisites. Students have the option of taking summer classes to lessen fall and spring course loads.

It is highly recommended that students meet with a LLC advisor each semester.

First Semester

LLC Course	Credits
ENG 120 Composition I	3
CHM 150 General Chemistry I †	4
MAT 241 Analytical Geom-Calc I +	5
ECO 231 Prin of Economics I	3
TEC 103 Engineering Graphics +	3
Semester Total	18
Third Semester	
LLC Course	Credits
PHY 141 University Physics II ⁺	4
BIO 100 Bio Science I	4
SPE 111 Intro to Speech Communication	3
MAT 151 C Program w/Engineering Appl †	3
PHY 239 Mechanics I ⁺	3
Semester Total	17
Total AA Degree Credits **	69
+ Course employ to Cilmaian	

Second Semester	
LLC Course	Credits
ENG 121 Composition II	3
CHM 151 General Chemistry II †	4
MAT 242 Analytical Geom-Calc II †	4
PHY 140 University Physics I †	4
IAI Social/Behavioral Science	3
Semester Total	18
Fourth Semester	
LLC Course	Credits
MAT 245 Differential Equations †	3
PHY 240 Mechanics II ⁺	3
MAT 243 Analytical Geom-Calc III +	4
IAI Humanities	3
IAI Fine Arts	3
Semester Total	16

+ Course applied to GU major.

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() (Lake Land Transfer Credit Breakdown based on the AS.PENG degree)	
(Credits in this se	LLC AS Course Requirements ction are reduced according to specific AA classes meeting major requirements delineated below.) #	Credit
	Communications	9
	Math (Met by major)	*x
	Physical & Life Science (CHM 150 applied to major))	4
	Humanities and Fine Arts	6
	Social Science	6
	Associated major or other electives not listed below**	ũ
	wa ma	
	ee not used in major	
(Assuming 64 cred	lits in AA Degree)	25

GU Upper Division General Education Requirements		
an Associate of Arts or Associate of Science Degree		
Greenville University Requirements for Transfer Students with		

Christian Fo	oundations (6 cr) (Nontransferable)	Credit
THEO 310	Liberal Arts and Christian Thought (may use THEO 110 or LEAD 306)	
UNIV 301	Science & Christianity	
Upper Divis	ion Writing Intensive	
	ENGR 401	*3
Global Fou	ndations	
	See catalog list	
Capstone (I	lontransferable)	
ENGR 401	Senior Design II	*1
	Total	

#See LLC catalog for specific requirements for AA and AS degrees

*x met by dual purpose course

The left column represents courses taken at LLC to be transferred to GU and how they are applied to the GU Major requirements listed on the right.

	L	LC Transfer Courses applied to GU Major Cours	ies .
снм	150	General Chemistry I	
СНМ	151	General Chemistry II	
MAT	151	C Program w/Engineering Appl	
TEĆ	103	Engineering Graphics	
рнү	239	Mechanics	
РНҮ	240	Mechanics II	
MAT	241	Analytical Geom-Calc I	
MAT	242	Analytical Geom-Calc II	
MAT	243	Analytical Geom-Calc III	
MAT	245	Differential Equations	
РНҮ	140	University Physics I	
₽НΥ	141	University Physics II	

Engineering Major Requirements		
CHEM 111	General Chemistry 1	
	General Chemistry II (4 cr) <u>OR</u>	
CHEM 112	BIOL 110 General Biology (4 cr)	
ENGR 101	Introduction to Engineering or UNIV101	
ENGR 110	Introduction to Programming	
ENGR 230	Electrical Circuits	
ENGR 240	Engineering Design & CAD	
ENGR 250	Statics	
ENGR 260	Dynamics	
ENGR 308	Engineering Thermodynamics	
ENGR 332	Mechatronics	
ENGR 340	Environment & Sustainability	
ENGR 352	Engineering Project Management	
ENGR 360	Engineering Ethics	
ENGR 401	Senior Design 1	
ENGR 402	Senior Design II	
MATH 115	Calculus I	
MATH 116	Calculus II	
MATH 217	Multivariable Calculus	
MATH 218	Differential Equations	
PHYS 200	University Physics I	
PHYS 210	University Physics 11	
PHYS 220	University Physics III	

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LLC Transfer Credits for	n An Maior	44

120 Credits needed for GU Degree		
	Lake Land College Credits	GU Cred
Gen Ed Cred	25	9
Major Credits	44	46
Elective Credits	0	0
Subtotals	69	55
Total Credits for GU Graduation ***	124	

Engineerin	g Elective Courses (9 cr must have ENGR prefix)	18
BIOL 365	Environmental Law and Policy (3 cr)	€ ³
BIOL 370	Basic Ecology (4 cr)	
ENGR 312	MFG Process & Materials (3 cr)	
ENGR 316	Machine Design & Mfg (3 cr)	
ENGR 322	Mechanics of Materials (3 cr)	
ENGR 325	Heat Transfer (3 cr)	
ENGR 326	Systems Design and Controls (3 cr)	
ENGR 330	Electronics (4 cr)	
ENGR 342	Water Management (3 cr)	
ENGR 343	Renewable Energy (3 cr)	
PHYS 311	Electricity and Magnetism (4 cr)	
PHYS 321	Statistical Mechanics (4 cr)	
PHYS 324	Quantum Mechanics (4 cr)	
PHYS 403	Advanced Physics Lab (3 cr)	
Additional	options may be added by the Department	
	Total Major Credits (88 cr)	46

Elective Gree	enville Credit	
	Elective Credit needed**	0

Greenville Residency Requirement	_
Must earn 30 credits in residence at GU	Y
Must earn 30 upper division credits	Y
Must earn half of major requirements in residence at GU	Y Y

*** Up to 69 credits may be transferred to GU including up to 30 vocational/tech and Prior Learning Assessment. See GU catalog for specifics.

GU cannot guarantee that all classes will be offered in a prescribed sequence. Applicable GU degree requirements are based upon current catalog at time of matriculation to GU.