

Engineering Science (ECE), Electrical Engineering (EEE) & Electronic (ELE)
Course Equivalency Guide between
Maricopa Community Colleges and Grand Canyon University



The following table is the assessment of the courses between Maricopa Community Colleges and Grand Canyon University. The following will be used in evaluating official transcripts.

These courses fulfill the competency requirements; however, the courses may not fulfill the credit requirements. To obtain an undergraduate degree at GCU, students are required to meet a minimum of 120 semester credit hours.

Maricopa Community Colleges			Grand Canyon University		
Course Code	Course Title	Transcript Credit	Course Code	Course Title	Applied Semester Credits
ENGINEERING SCIENCE (ECE)					
ECE101	ORIGINS OF SCIENCE AND ENGINEERING	3		Global Awareness Transfer – LD	3
ECE102 AND ECE102AA AND ECE103 AND ECE103AB	ENGINEERING ANALYSIS TOOLS AND TECHNIQUES (4) AND ENGINEERING PROBLEM SOLVING AND DESIGN (4)	8		UNV-112*: SUCCESS IN SCIENCE, ENGINEERING AND TECHNOLOGY & LAB AND Critical Thinking Transfer - LD (4) <i>*Students must complete UNV-103/303: University Success upon transfer to GCU</i>	8
ECE102 OR ECE102AA	ENGINEERING ANALYSIS TOOLS AND TECHNIQUES	2		Elective Transfer - LD	2
ECE103 OR ECE103AB	ENGINEERING PROBLEM SOLVING AND DESIGN	2		Elective Transfer - LD	2
ECE105	MATLAB PROGRAMMING	1		Critical Thinking Transfer - LD	1
ECE111	BIOENGINEERING SYSTEMS	3		Critical Thinking Transfer - LD	3
ECE201	INTRODUCTION TO ENGINEERING STATICS	2		Elective Transfer - LD	2
ECE211	ENGINEERING MECHANICS-STATICS	3	MET-212	STATIC ANALYSIS OF MECHANICAL SYSTEMS & LAB	3
ECE211 AND ECE212	ENGINEERING MECHANICS-STATICS (3) AND ENGINEERING MECHANICS-DYNAMICS(3)	6	ESG-360	STATICS AND DYNAMICS & LAB (4) AND Critical Thinking Transfer - LD (2)	6
ECE212	ENGINEERING MECHANICS-DYNAMICS	3	MET-213	DYNAMIC ANALYSIS OF MECHANICAL SYSTEMS & LAB	3
ECE214	ENGINEERING MECHANICS	4		Elective Transfer - LD	4
ECE215	MECHANICS OF MATERIALS	3	MET-203 OR MEE-352	STRENGTH OF MATERIALS & LAB OR SOLID MECHANICS & LAB	3
ECE216 AND ECE216LL	COMPUTER-AIDED ENGINEERING (2) AND COMPUTER-AIDED ENGINEERING LABORATORY (1)	3	ESG-250	COMPUTER AIDED ENGINEERING & LAB	3
ECE230	INTRODUCTION TO THE CHEMICAL ENGINEERING PROCESS	3		Critical Thinking Transfer - LD	3
ECE231	INTRODUCTION TO FLUID TRANSPORT PHENOMENA	3		Critical Thinking Transfer - LD	3
ECE282AA-C	VOLUNTEERISM FOR ENGINEERING SCIENCE: A SERVICE LEARNING EXPERIENCE	1-3		Elective Transfer - LD	1-3
ECE285	INTRODUCTION TO ASTRODYNAMICS	4		Critical Thinking Transfer - LD	4

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ECE294	SPECIAL TOPICS IN ENGINEERING	3		Elective Transfer - LD	3
ECE294AA-C	SPECIAL TOPICS IN ENGINEERING	1-3		Elective Transfer - LD	1-3
ECE296WA-D	COOPERATIVE EDUCATION	1-4		Elective Transfer - LD	1-4
ECE298AA-C	SPECIAL TOPICS	1-3		Elective Transfer - LD	1-3
ELECTRICAL ENGINEERING (EEE)					
EEE120 OR CSC120	DIGITAL DESIGN FUNDAMENTALS	4	CST-215	DIGITAL LOGIC AND DESIGN & LAB	4
EEE202	CIRCUITS AND DEVICES	5	EEE-202 AND EEE-202L	CIRCUITS (LECTURE & LAB) (4) AND Elective Transfer – LD (1)	5
EEE220 OR CSC220	PROGRAMMING FOR COMPUTER ENGINEERING	3	CST-211	PROGRAMMING AND ENGINEERING & LAB	3
EEE230 OR CSC230	COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE	4	CST-307	INTRODUCTION TO COMPUTER ARCHITECTURE & LAB	4
ELECTRONIC (ELE)					
ELE100	CONCEPTS OF ELECTRICITY AND ELECTRONICS	3		Critical Thinking Transfer - LD	3
ELE101	BEGINNING ALGEBRA FOR TECHNOLOGY	3		Critical Thinking Transfer - LD	3
ELE105	ALGEBRA-TRIGONOMETRY FOR TECHNOLOGY	5	MAT-250	COLLEGE ALGEBRA AND TRIGONOMETRY (4) AND Critical Thinking Transfer – LD (1)	5
ELE111	CIRCUIT ANALYSIS I	4	EET-202 AND EET-202L	APPLIED CIRCUITS I (LECTURE & LAB)	4
ELE112	CIRCUIT ANALYSIS II	4	EET-302	APPLIED CIRCUITS II & LAB	4
ELE121	SOLID-STATE DEVICES AND CIRCUITS I	4		Critical Thinking Transfer - LD	4
ELE131 AND ELE181	DIGITAL LOGIC AND CIRCUITS (3) AND COMPUTER PROGRAMMING FOR TECHNOLOGY (3)	6	CST-215	DIGITAL LOGIC AND DESIGN & LAB (4) AND Critical Thinking Transfer - LD (2)	6
ELE173	FABRICATION TECHNIQUES	2		Elective Transfer - LD	2
ELE222	SOLID-STATE DEVICES AND CIRCUITS II	4		Critical Thinking Transfer - LD	4
ELE241	MICROPROCESSOR CONCEPTS	4		Critical Thinking Transfer - LD	4
ELE243	MICROPROCESSOR APPLICATIONS	3		Elective Transfer - LD	3
ELE245	ADVANCED MICROPROCESSORS AND SYSTEMS	3		Elective Transfer - LD	3
ELE251	ELECTRONIC MEASUREMENTS	3		Critical Thinking Transfer - LD	3
ELE261	COMMUNICATION SYSTEMS	4		Elective Transfer - LD	4
ELE263	DIGITAL DATA COMMUNICATIONS	4		Elective Transfer - LD	4

All Grand Canyon University programs follow a Program of Study, which can be changed by the University at any time. All Programs of Study are subject to the terms, conditions, and policies outlined in the University's enrollment application and the <http://www.gcu.edu/Policy-Handbook.php>.

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