ENGINEERING TECHNOLOGY, ASSOCIATE OF APPLIED SCIENCE

Program Requirements

Program Prerequisites: None

Code	Title	Credits	Semester
Required Courses			_____
CHM130	Fundamental Chemistry	3	_____
CHM130LL	Fundamental Chemistry Laboratory	1	_____
OR			_____
CHM150	General Chemistry I	4	_____
or CHM151	General Chemistry I		_____
CHM151LL	General Chemistry I Laboratory	1	_____
OR			_____
CHM130AA	Fundamental Chemistry with Lab	4	_____
or CHM140AA	General Chemistry for Engineers with Lab		_____
or CHM150AA	General Chemistry I with Lab		_____
or CHM151AA	General Chemistry I with Lab		_____
CIS105	Survey of Computer Information Systems	3	_____
Select one of the following:			_____
CIS150	Programming Fundamentals		_____
CIS150AB	Object-Oriented Programming Fundamentals		_____
CIS156	Python Programming: Level I		_____
CIS159	Visual Basic Programming I		_____
CIS162AB	C++: Level I		_____
CIS162AD	C#: Level I		_____
CIS163AA	Java Programming: Level I		_____
CSC100	Introduction to Computer Science (C++)		_____
CSC100AA	Introduction to Computer Science (C++)		_____
CSC100AB	Introduction to Computer Science (C++)		_____
CSC110	Introduction to Computer Science (Java)		_____
CSC110AA	Introduction to Computer Science (Java)		_____
CSC110AB	Introduction to Computer Science (Java)		_____
ECE102	Engineering Analysis Tools and Techniques	2	_____
ECE103	Engineering Problem Solving and Design	2	_____
ECE216	Computer-Aided Engineering	2	_____
ECE216LL	Computer-Aided Engineering Laboratory	1	_____
or ECE216AA	Computer-Aided Engineering		_____
ECE104	EPICS Gold I	0.5-4	_____
or ECE294AA	Special Topics in Engineering		_____
or ECE294AB	Special Topics in Engineering		_____
or ECE294AC	Special Topics in Engineering		_____
or ECE296WA	Cooperative Education		_____
or ECE296WB	Cooperative Education		_____
or ECE296WC	Cooperative Education		_____
or ECE296WD	Cooperative Education		_____
or ECE298AA	Special Projects		_____
or ECE298AB	Special Projects		_____
or ECE298AC	Special Projects		_____
FYE101	Introduction to College, Career and Personal Success	1	_____
or FYE103	Exploration of College, Career and Personal Success		_____
PHY111	General Physics I	4	_____
or PHY121	University Physics I: Mechanics		_____
PHY112	General Physics II	4	_____
or PHY131	University Physics II: Electricity and Magnetism		_____
Restricted Electives			_____

In consultation with an Academic, Faculty, or Program Advisor, complete 10-14 credits of coursework from any of the areas below that best align with academic and professional goals. Students may select courses from multiple areas.			_____
General Application			_____
Select one of the following programming courses not already taken in required courses:			_____
CIS150	Programming Fundamentals		_____
CIS150AB	Object-Oriented Programming Fundamentals		_____
CIS156	Python Programming: Level I		_____
CIS159	Visual Basic Programming I		_____
CIS162AB	C++: Level I		_____
CIS162AD	C#: Level I		_____
CIS163AA	Java Programming: Level I		_____
CSC100	Introduction to Computer Science (C++)		_____
CSC100AA	Introduction to Computer Science (C++)		_____
CSC100AB	Introduction to Computer Science (C++)		_____
CSC110	Introduction to Computer Science (Java)		_____
CSC110AA	Introduction to Computer Science (Java)		_____
CSC110AB	Introduction to Computer Science (Java)		_____
Select one of the following courses not already taken in required courses:			_____
ECE104	EPICS Gold I		_____
or ECE294	Special Topics in Engineering		_____
or ECE294AA	Special Topics in Engineering		_____
or ECE294AB	Special Topics in Engineering		_____
or ECE294AC	Special Topics in Engineering		_____
or ECE296W	Cooperative Education		_____
or ECE296WI	Cooperative Education		_____
or ECE296WO	Cooperative Education		_____
or ECE296WP	Cooperative Education		_____
or ECE298AA	Special Projects		_____
or ECE298AB	Special Projects		_____
or ECE298AC	Special Projects		_____
ECE105	MATLAB Programming	1	_____
ECE106	Survey of Nanotechnology	1	_____
GTC/MIT/OSH106		0-3	_____
or AIT100	Industrial Safety		_____
or CON271	Construction Safety		_____
MAT206	Elements of Statistics	3	_____
Biomedical Engineering Technician			_____
BIO160	Introduction to Human Anatomy and Physiology	4	_____
or BIO201	Human Anatomy and Physiology I		_____
ABS175	Research Methods in Biology	1	_____
BIO211AA	Biotechnology Seminar: Biomedical Applications	1	_____
ECE111	Bioengineering Systems	3	_____
Civil Engineering Technician			_____
CET211		0-3	_____
or CON223	Strength of Materials		_____
CON241	Surveying	3	_____
ECE216	Computer-Aided Engineering	2	_____
ECE216LL	Computer-Aided Engineering Laboratory	1	_____
OR			_____
ECE216AA	Computer-Aided Engineering	3	_____
GLG101	Introduction to Geology I - Physical Lecture	3	_____
GLG103	Introduction to Geology I - Physical Lab	1	_____
OR			_____
GLG101IN	Introduction to Geology I - Physical	4	_____
Drafting for Engineering Technician			_____
CAD100	Fundamentals of 2D Autocad	3	_____
CAD101	Elements of CAD Graphics (AutoCAD)	3	_____

CAD145	Design Principles for Industry	3	_____
DFT110	Introduction to Drafting	3	_____
DFT126	Building Trades Blueprint Reading	3	_____
ECE216	Computer-Aided Engineering	2	_____
ECE216LL	Computer-Aided Engineering Laboratory	1	_____
OR			_____
ECE216AA	Computer-Aided Engineering	3	_____
			_____
General Education			**_____**
Core			**_____**
First-Year Composition			_____
ENG101	First-Year Composition	3	_____
or ENG107	First-Year Composition for ESL		_____
ENG102	First-Year Composition	3	_____
or ENG108	First-Year Composition for ESL		_____
Oral Communication			_____
COM100	Introduction to Human Communication (Recommend COM225 or COM230)	3	_____
or COM110	Interpersonal Communication		_____
or COM225	Public Speaking		_____
or COM230	Small Group Communication		_____
Critical Reading			_____
CRE101	College Critical Reading and Critical Thinking	3	_____
or equivalent as indicated by assessment			_____
Mathematics			_____
MAT187	Precalculus	5	_____
or MAT220	Calculus with Analytic Geometry I		_____
or MAT221	Calculus with Analytic Geometry I		_____
General Education			**_____**
Humanities, Arts and Design			_____
Any approved general education course(s) from the Humanities, Arts and Design area			_____
Social and Behavioral Sciences			**_____**
Any approved general education course(s) in the Social and Behavioral Sciences area			_____
Recommend ECN211 or ECN212			_____
Natural Sciences			_____
Met by CHM or PHY in Required Courses			_____
Total Credits		61-70	_____