ENGINEERING TECHNOLOGY, ASSOCIATE OF APPLIED SCIENCE

Program Requirements

Program Prerequisites: None

Required Courses	Code	Title	Credits	Semester
Chemistry CHM130LL Fundamental 1 Chemistry Laboratory OR CHM150 General 4 Chemistry I Or CHM151 General 1 Chemistry I Laboratory OR CHM151LL General 1 Chemistry I Laboratory OR CHM130AA Fundamental 4 Chemistry with Lab Or CHM140AA General Chemistry I with Lab Or CHM151AA General Chemistry I with Lab Or CHM151AA General Chemistry I with Lab Or CHM151AA General Chemistry I with Lab CIS105 Survey of 3 Computer Information Systems Select one of the following: CIS150 Programming Fundamentals CIS150AB Object-Oriented Programming Fundamentals CIS156 Python Programming: Level I CIS162AB C++: Level I CIS162AD C#: Level I CIS163AA Java Programming: Level I CIS163AA Java Programming: Level I CIS163AA Java Programming: Level I CIS160 Introduction to Computer	Required Courses	;		
Chemistry Laboratory OR CHM150 General	CHM130		3	
CHM150 General Chemistry I or CHM151 General Chemistry I CHM151LL General 1 Chemistry I Laboratory OR CHM130AA Fundamental 4 Chemistry with Lab or CHM140AA General Chemistry I with Lab or CHM151AA General Chemistry I with Lab or CHM150AA General Chemistry I with Lab or CHM150AA General Chemistry I with Lab or CHM150AA General Chemistry I with Lab or CHM150AB General Chemistry I with Lab Or CHM151AA General Chemistry I with Lab CIS105 Survey of 3 Computer Information Systems 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	CHM130LL	Chemistry	1	
Chemistry I or CHM151 General Chemistry I CHM151LL General 1 Chemistry I Laboratory OR CHM130AA Fundamental 4 Chemistry with Lab Or CHM140AA General Chemistry for Engineers with Lab Or CHM151AA General Chemistry I with Lab Or CHM151AA General Chemistry I with Lab CIS105 Survey of 3 Computer Information Systems 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 CIS163AA Java Programming: Level I CIS163AA Java Programming: Level I CISC100 Introduction to Computer	OR			
CHM151LL General 1 Chemistry I Laboratory OR CHM130AA Fundamental 4 Chemistry with Lab or CHM140AA General Chemistry for Engineers with Lab or CHM151AA General Chemistry I with Lab or CHM151AA General Chemistry I with Lab or CHM151AA General Chemistry I with Lab CIS105 Survey of 3 Computer Information Systems 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	CHM150		4	
Chemistry I Laboratory OR CHM130AA Fundamental 4 Chemistry with Lab or CHM140AA General Chemistry I with Lab or CHM150AA General Chemistry I with Lab or CHM151AA General Chemistry I with Lab Or CHM151AA General Chemistry I with Lab Or CHM151AA General Chemistry I with Lab CIS105 Survey of 3 Computer Information Systems 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	or CHM151	General Chemistry I		
CHM130AA Fundamental Chemistry with Lab 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 3 Computer Information Systems 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	CHM151LL	Chemistry I	1	
Chemistry with Lab 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 3 Computer Information Systems 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 CIS163AA Java Programming: Level I CISC100 Introduction to Computer	OR			
with Lab or CHM150AA General Chemistry I with Lab or CHM151AA General Chemistry I with Lab CIS105 Survey of 3 Computer Information Systems 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 CIS163AA Java Programming: Level I CIS163AA Java Programming: Level I CSC100 Introduction to Computer	CHM130AA	Chemistry with	4	
or CHM151AA General Chemistry I with Lab CIS105 Survey of 3 Computer Information Systems 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	or CHM140AA	· · · · · · · · · · · · · · · · · · ·	ineers	
CIS105	or CHM150AA	General Chemistry I with L	ab	
Computer Information Systems 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	or CHM151AA	General Chemistry I with L	ab	
CIS150	CIS105	Computer Information	3	
Fundamentals	Select one of the	following:		
Programming Fundamentals	CIS150			
Programming: Level	CIS150AB	Programming		
Programming I CIS162AB	CIS156	Programming:		
CIS162AD C#: Level I CIS163AA Java Programming: Level I CSC100 Introduction to Computer	CIS159			
CIS163AA Java Programming: Level I CSC100 Introduction to Computer	CIS162AB	C++: Level I		
Programming: Level I CSC100 Introduction to Computer	CIS162AD	C#: Level I		
to Computer	CIS163AA	Programming:		
	CSC100	to Computer		

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 or ECE298AC	Special Projects Special Projects		
FYE101	Introduction to	1	
112101	College, Career and Personal	ı	
	Success		
or FYE103		and	
or FYE103	Success Exploration of College, Career	and 4	
	Success Exploration of College, Career of Personal Success	4	
PHY111	Success Exploration of College, Career a Personal Success General Physics I	4	
PHY111 or PHY121	Success Exploration of College, Career a Personal Success General Physics I University Physics I: Mechanic General Physics	4 es 4	
PHY111 or PHY121 PHY112	Success Exploration of College, Career of Personal Success General Physics I University Physics I: Mechanic General Physics II University Physics II: Electricit Magnetism	4 es 4	

Faculty, or Progra			BA/Special Projects BAESpecial Projects		
complete 10-14 o		or ECE298	BACSpecial Projects		
	n any of the areas align with academic Locals, Students	ECE105	MATLAB Programming	1	
	ses from multiple	ECE106	Survey of Nanotechnology	1	
General Applicat	ion	 GTC/MIT/		0-3	
Select one of the	e following	 OSH106	In decembed On factor		
	urses not already	or AIT100	Industrial Safety		
taken in required		or CON271	Construction Safety	•	
CIS150	Programming Fundamentals	 MAT206	Elements of Statistics	3	
CIS150AB	Object-Oriented	 _	ineering Technician		
	Programming Fundamentals	BIO160	Introduction to Human Anatomy	4	
CIS156	Python Programming:	 or BIO201	and Physiology Human Anatomy and Pl	hysiology I	
	Level I	ABS175	Research	1	
CIS159	Visual Basic Programming I	 AD3173	Methods in Biology	'	
CIS162AB	C++: Level I	 BIO211AA	Biotechnology	1	
CIS162AD	C#: Level I		Seminar:		
CIS163AA	Java		Biomedical		
	Programming: Level I	ECE111	Applications Bioengineering	3	
CSC100	Introduction		Systems		
	to Computer	Civil Engineering Technician			
	Science (C++)	CET211		0-3	
CSC100AA	Introduction	 or CON223	Strength of Materials		
	to Computer Science (C++)	CON241	Surveying	3	
CSC100AB	Introduction	ECE216	Computer-Aided	2	
	to Computer Science (C++)	 ECE216LL	Engineering Computer-Aided Engineering	1	
CSC110	Introduction to Computer		Laboratory		
		OR	·		
00011044	Science (Java) Introduction	ECE216AA	Computer-Aided	3	
CSC110AA	to Computer		Engineering		
	Science (Java)	GLG101	Introduction to Geology I -	3	
CSC110AB	Introduction		Physical Lecture		
	to Computer Science (Java)	GLG103	Introduction	1	
	e following courses		to Geology I - Physical Lab		
not already taker courses:	n in required	OR			
ECE104	EPICS Gold I	GLG101IN	Introduction	4	
	Special Topics in Engineering		to Geology I -		
	A/Special Topics in Engineering		Physical		
	AESpecial Topics in Engineering		gineering Technician		
	A(Special Topics in Engineering	CAD100	Fundamentals of	3	
	W.Cooperative Education	CAD101	2D Autocad Elements of	2	
	M Cooperative Education	CADIUI	CAD Graphics	3	
	W Cooperative Education		(AutoCAD)		
	W Cooperative Education				

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	1			
Core				
First-Year Compos	ition			
ENG101	First-Year	3		
	Composition			
or ENG107	First-Year Composition for ESL			
ENG102	First-Year	3		
	Composition			
or ENG108	First-Year Composition for ESL			
Oral Communication	on			
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 in assessment	ndicated by			
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 ger course(s) from the and Design area	neral education e Humanities, Arts			
Social and Behavioral Sciences				
Any approved ger course(s) in the S Behavioral Science	ocial and			
Recommend ECN211 or ECN212				
Natural Sciences				

Met by CHM or PHY in Required		
Courses		
Total Credits	61-70	