



ASSOCIATE OF APPLIED SCIENCE COMPUTER ENGINEERING

2024-25 Catalog

Effective Summer 2024

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-28.

5350

Business, Engineering, and Information Technologies Division Computer Science and Information Systems Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CSE231	Java Programming	3	CSE122	
CSE232	Advanced Java Programming	3	CSE231	
CSE233	C++ Programming	3	CSE122	
CSE234	Advanced C++ Programming▲ -	3	CSE233	
EET120	DC Circuit Analysis	4	pre-co-MTH125 or pre-co-MTH135	
EET122	AC Circuit Analysis	4	(pre-co-MTH130 or pre-co- MTH135) and EET120	
EET227	PLC's and Industrial Controls I	3	EST230 or EET120	
MTH223	Analytical Geometry and Calculus I ^{^*}	4	MTH135	
NET120	PC Upgrading and Maintenance	3		
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
COM121	Effective Speaking	3	None	
or	or	or	or	
COM122	Interpersonal Communication	3	None	
or	or	or	or	
COM123	Small Group Communication [^]	3	IDS102 or Proficiency	
CHM141	General Chemistry I [^]	5	(CHM101 or Proficiency)	
CSE122	Programming Logic and Problem Solving [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
ENG124	College Composition [^]	3	Co-ENG024 or Co-ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
MTH135	Precalculus [^] – <i>A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.</i>	5	MTH025 or Proficiency	
PHY121	College Physics I with Algebra (lab) [^]	4	MTH135 or (MTH125 and MTH130) or Proficiency	
	<i>Select one (1) Arts & Humanities Elective from the list below¹</i>	3	<i>Check for prerequisites</i>	
	<i>Select one (1) Social and Behavioral Sciences Elective from the list below²</i>	3	<i>Check for prerequisites</i>	
Total		33		
TOTAL CREDIT HOURS		63		

[^]Based on SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

▲ - Fall only courses. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social and Behavioral Sciences Electives: PSC121, PSY121, PSY123, PSY124, PSY221, SOC121, SOC123, SOC221, SOC225

* Students who test directly into Analytical Geometry and Calculus I should contact the Math Department Chair for the possibility of receiving credit for Precalculus.

Students completing this degree may be eligible to also receive a Computer Science and Engineering – C++ Programming Career Enhancement Certificate (5255) and a Computer Science and Engineering – Java Programming Career Enhancement Certificate (5257).

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>	<u>Course Title</u>	<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
NET120	PC Upgrading and Maintenance	3	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
COM121	Effective Speaking	3	None
or	or	or	or
COM122	Interpersonal Communication	3	None
or	or	or	or
COM123	Small Group Communication^	3	IDS102 or Proficiency
ENG124	College Composition^	<u>3</u>	Co-ENG024 or Co-ENG011 or Proficiency
		13	
<u>Second Semester</u>			
EET120	DC Circuit Analysis	4	pre-co-MTH125 or pre-co-MTH135
MTH135	Precalculus^ – <i>A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.</i>	5	MTH025 or Proficiency
CSE231	Java Programming	3	CSE122
CSE233	C++ Programming	<u>3</u>	CSE122
		15	
<u>Summer Semester</u>			
EET122	AC Circuit Analysis	4	(pre-co-MTH130 or pre-co-MTH135) and EET120
<i>Arts & Humanities Elective¹</i>		3	<i>Check for prerequisites</i>
<i>Social and Behavioral Sciences Elective²</i>		<u>3</u>	<i>Check for prerequisites</i>
		10	
<u>Third Semester</u>			
CSE234	Advanced C++ Programming ▲ -	3	CSE233
EET227	PLC's and Industrial Controls I	3	EST230 or EET120
ENG221	Technical Report Writing	3	ENG124
CSE232	Advanced Java Programming	<u>3</u>	CSE231
		12	
<u>Fourth Semester</u>			
CHM141	General Chemistry I^	5	CHM101 or Proficiency
MTH223	Analytical Geometry and Calculus I^*	4	MTH135
PHY121	College Physics I with Algebra (lab)^	<u>4</u>	MTH135 or (MTH125 and MTH130) or Proficiency
		13	
	TOTAL CREDITS	63	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

▲ - Fall only courses. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social and Behavioral Sciences Electives: PSC121, PSY121, PSY123, PSY124, PSY221, SOC121, SOC122, SOC123, SOC221, SOC225

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