



ASSOCIATE OF APPLIED SCIENCE

COMPUTER SCIENCE AND 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.

5250

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
CPD123	Structured Query Language	3	CPD121	
CSE229	.Net Development	3	CSE122	
CSE230	Advanced .Net Development ▲ -	3	CSE229	
CSE231	Java Programming	3	CSE122	
CSE232	Advanced Java Programming	3	CSE231	
CSE233	C++ Programming	3	CSE122	
CSE234	Advanced C++ Programming ▲ -	3	CSE233	
CSE236	Analyzing Software Requirements and Developing Solutions	3	(CIS221 or CSE235 or CSE229 or CSE231 or CSE233 or WDD221 or WDD222 or WDD224 or WDD225 or WDD226) and CPD123	
	Select two (2) Technical Electives from the list below ³ ▲	6	Check for prerequisites	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
COM121 or COM122 or COM123	Effective Speaking or Interpersonal Communication or Small Group Communication^	3 or 3 or 3	None or None or IDS102 or Proficiency	
CIS126	Fundamentals of Information Systems^	3	IDS102 or Proficiency	
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 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	
CSE121	Mobile Development Architecture	3	pre-co-CSE122	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	MTH025 or Proficiency	
WDD121	Internet Design and Development^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	Check for prerequisites	
	Select one (1) Social and Behavioral Sciences Elective from the list below ²	3	Check for prerequisites	
Total		33		
TOTAL CREDIT HOURS		63		

[^]Based upon SSC placement score

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

▲ Course offerings vary by semester. Please see your academic advisor for availability.

▲ - 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

³Technical Electives: AIN121, CSE221, CSE226, CSE235, CSE237, MTH214, WDD221, WDD224, WDD225, WDD226

Students completing this degree may be eligible to also receive a Computer Science and Engineering – C++ Programming Career Enhancement Certificate (5255), an Artificial Intelligence Career Enhancement Certificate (5248), an Artificial Intelligence Fundamentals Career Enhancement Certificate (5249), a Computer Science and Engineering – Java Programming Career Enhancement Certificate (5257) and a Computer Science Career Enhancement Certificate (5258).

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>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency)
CSE122	Programming Logic and Problem Solving^	3	and (ITD100 or Proficiency)
MTH135	Precalculus^– <i>A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.</i>	5	(IDS102 or Proficiency)
WDD121	Internet Design and Development^	<u>3</u>	and (ITD100 or Proficiency)
		15	
<u>Second Semester</u>			
CPD123	Structured Query Language	3	CPD121
CSE229	.Net Development	3	CSE122
CSE231	Java Programming	3	CSE122
CSE233	C++ Programming	3	CSE122
ENG124	College Composition^	<u>3</u>	Co-ENG024 or Co-ENG011 or Proficiency
		15	
<u>Summer Semester</u>			
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
	<i>Social and Behavioral Sciences Elective²</i>	<u>3</u>	<i>Check for prerequisites</i>
		6	
<u>Third Semester</u>			
CIS126	Fundamentals of Information Systems^	3	IDS102 or Proficiency
CSE230	Advanced .Net Development▲-	3	CSE229
CSE232	Advanced Java Programming	3	CSE231
CSE234	Advanced C++ Programming▲-	3	CSE233
CSE121	Mobile Development Architecture	<u>3</u>	pre-co-CSE122
		15	
<u>Fourth Semester</u>			
	<i>Arts & Humanities Elective¹</i>	3	<i>Check for prerequisites</i>
CSE236	Analyzing Software Requirements and Developing Solutions	3	(CIS221 or CSE235 or CSE229 or CSE231 or CSE233 or WDD221 or WDD222 or WDD224 or WDD225 or WDD226) and CPD123
	<i>Technical Elective³▲</i>	3	<i>Check for prerequisites</i>
	<i>Technical Elective³▲</i>	<u>3</u>	<i>Check for prerequisites</i>
		12	
	TOTAL CREDITS	63	

^Based upon SSC placement score

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

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

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³Technical Electives: AIN121, CSE221, CSE226, CSE235, CSE237, MTH214, WDD221, WDD224, WDD225, WDD226