ASSOCIATE OF APPLIED SCIENCE

COMPUTER SCIENCE AND ENGINEERING

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.

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.

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

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

[3]Technical 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).

PART-TIME STUDENT ADVISING NOTES

<u>Academic Advising</u>
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.

<u>Course Sequence</u>
The semester-by-semester listing below provides the normal scheduling option for part-time associate degree students who plan to finish in eight semesters.

First Semester		Credit Hours	Pre- and Co-requisites
SSC101	Student Success Seminar^^	1	*Take first semester*
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)
		7	
Second Semester			
MTH135	Precalculus^– *A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.*	5	MTH025 **or** Proficiency
ENG124	College Composition^	3	Co-ENG024 **or** Co-ENG011 **or** Proficiency
		8	
Third Semester			
CIS126	Fundamentals of Information Systems^	3	IDS102 or Proficiency
CSE229	.Net Development	3	CSE122
		6	
Fourth Semester			
CSE231	Java Programming	3	CSE122
CSE233	C++ Programming	3	CSE122
		6	
Fifth Semester			
CSE230	Advanced .Net Development ▲-	3	CSE229
CSE232	Advanced Java Programming	3	CSE231
Social and Behavioral Sciences Elective[2]		3	*Check for prerequisites*
		9	
Sixth Semester			
CPD123	Structured Query Language	3	CPD121
WDD121	Internet Design and Development^	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
		9	
Seventh Semester			
CSE234	Advanced C++ Programming ▲-	3	CSE233
CSE121	Mobile Development Architecture	3	Pre/Co-CSE122
Technical Elective[3] ▲		3	*Check for prerequisites*
		9	
Eighth Semester			
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
Arts & Humanities Elective[1]		3	*Check for prerequisites*
Technical Elective[3] ▲		3	*Check for prerequisites*
		9	
TOTAL CREDITS		**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.
[1]Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122
[2]Social and Behavioral Sciences Electives: PSC121, PSY121, PSY123, PSY124, PSY221, SOC121, SOC122, SOC123, SOC221, SOC225
[3]Technical Electives: AIN121, CSE221, CSE226, CSE235, CSE237, MTH214, WDD221, WDD224, WDD225, WDD226