

 	<p style="text-align: center;">ASSOCIATE OF APPLIED BUSINESS</p> <p style="text-align: center;">COMPUTER PROGRAMMING AND DATABASE</p> <p style="text-align: center;"><i>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.</i></p>	<p style="text-align: center;">2025-26 Catalog</p> <p style="text-align: center;">Effective Summer 2025</p> <p style="text-align: center; font-size: 2em;">5200</p>
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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
CIS125	Data Analysis and Decision Making ▲	3	pre-co-AOT226	
CIS221	Generating Reports for Decision Making ▲-	3	pre-co-AOT226	
CPD224	Microsoft SQL Server Database Administration	3	CPD123	
CSE229	.Net Development	3	CSE122	
CSE230	Advanced .Net Development ▲-	3	CSE229	
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	
WDD225	ASP.Net MVC Development ▲	3	CSE122 and WDD121	
WDD226	Web Development with PHP and MySQL	3	CSE122 and WDD121	
	Select two (2) Technical Elective 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	
AOT226	Spreadsheet Microsoft Excel	3	ITD100 or Proficiency	
COM121 or COM122 or COM123	Effective Speaking or Interpersonal Communication or Small Group Communication^	3 or 3 or 3	Check for Prerequisites	
CIS126	Fundamentals of Information Systems^	3	IDS102 or Proficiency	
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CPD123	Structured Query Language	3	CPD121	
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	
MTH118 or MTH124	Quantitative Reasoning^ or Statistics^	3 or 3	Check for Prerequisites	
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		34		
TOTAL CREDIT HOURS		64		

^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 Elective: CSE231, CSE233, CSE235, WDD221, WDD222, WDD224

Students completing this degree may be eligible to also receive a Database Systems One-Year Certificate (5204).

PART-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 part-time associate degree students who plan to finish in eight semesters.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CIS126	Fundamentals of Information Systems^	3	IDS102 or Proficiency
ENG124	College Composition^	3	Co-ENG024 or Co-ENG011 or Proficiency
		7	
<u>Second Semester</u>			
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency)
WDD121	Internet Design and Development^	3	and (ITD100 or Proficiency)
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency)
		9	and (ITD100 or Proficiency)
<u>Third Semester</u>			
CSE229	.Net Development	3	CSE122
MTH118	Quantitative Reasoning^	3	
or	or	or	<i>Check for Prerequisites</i>
MTH124	Statistics^	3	
		6	
<u>Fourth Semester</u>			
CPD123	Structured Query Language	3	CPD121
COM121	Effective Speaking	3	
or	or	or	
COM122	Interpersonal Communication	3	<i>Check for Prerequisites</i>
or	or	or	
COM123	Small Group Communication^	3	
<i>Arts & Humanities Elective¹</i>		3	<i>Check for prerequisites</i>
		9	
<u>Fifth Semester</u>			
CIS221	Generating Reports for Decision Making ▲ -	3	Pre-Co-AOT226
WDD225	ASP.Net MVC Development ▲	3	CSE122 and WDD121
CSE230	Advanced .Net Development ▲ -	3	CSE229
		9	
<u>Sixth Semester</u>			
CIS125	Data Analysis and Decision Making ▲	3	Pre-Co-AOT226
WDD226	Web Development with PHP and MySQL	3	CSE122 and WDD121
<i>Technical Elective³</i>		3	<i>Check for prerequisites</i>
		9	
<u>Seventh Semester</u>			
CPD224	Microsoft SQL Server Database Administration	3	CPD123
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
		6	
<u>Eighth Semester</u>			
<i>Social and Behavioral Sciences Elective²</i>		3	<i>Check for prerequisites</i>
<i>Technical Elective³</i>		3	<i>Check for prerequisites</i>
AOT226	Spreadsheet Microsoft Excel	3	ITD100 or Proficiency
		9	
TOTAL CREDITS		64	

^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 Elective: CSE231, CSE233, CSE235, WDD221, WDD222, WDD224