



ASSOCIATE OF APPLIED BUSINESS

COMPUTER PROGRAMMING AND DATABASE

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.

2024-25 Catalog
Effective Summer 2024

5200

Business, Engineering, and Information Technology 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	CPD121	
CIS221	Generating Reports for Decision Making ▲ -	3	CPD121	
CPD224	Advanced Microsoft SQL Server Database	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	
WDD224	Active Server Page Development	3	CSE122 and WDD121	
WDD225	ASP.Net MVC Development ▲	3	CSE122 and WDD121	
WDD226	Web Development with PHP and MySQL	3	CSE122 and WDD121	
	<i>Select two (2) Technical Elective from the list below³ ▲</i>	6	<i>Check for prerequisites</i>	
Total		33		
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	
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	Quantitative Reasoning^	3	Pre/Co-MTH018 or MTH022 or MTH023 or Proficiency	
WDD121	Internet Design and Development^	3	(IDS102 or Proficiency) and (ITD100 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		31		
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

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

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>
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)
WDD121	Internet Design and Development^	<u>3</u>	(IDS102 or Proficiency) and (ITD100 or Proficiency)
		13	
<u>Second Semester</u>			
CIS125	Data Analysis and Decision Making ▲	3	CPD121
CPD123	Structured Query Language	3	CPD121
CSE229	.Net Development	3	CSE122
MTH118	Quantitative Reasoning^	3	Pre/Co-MTH018 or MTH022 or MTH023 or Proficiency
WDD224	Active Server Page Development	<u>3</u>	CSE122 and WDD121
		15	
<u>Summer Semester</u>			
ENG124	College Composition^	3	Co-ENG024 or Co-ENG011 or Proficiency
<i>Arts & Humanities Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		6	
<u>Third Semester</u>			
CIS221	Generating Reports for Decision Making ▲-	3	CPD121
CPD224	Advanced Microsoft SQL Server Database	3	CPD123
CSE230	Advanced .Net Development ▲-	3	CSE229
<i>Technical Elective³</i>		3	<i>Check for prerequisites</i>
WDD225	ASP.Net MVC Development ▲	<u>3</u>	CSE122 and WDD121
		15	
<u>Fourth 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
			(CIS221 or CSE235 or CSE229 or CSE231 or CSE233 or WDD221 or WDD222 or WDD224 or WDD225 or WDD226) and CPD123
CSE236	Analyzing Software Requirements and Developing Solutions	3	CSE122 and WDD121
WDD226	Web Development with PHP and MySQL	3	<i>Check for prerequisites</i>
<i>Technical Elective³</i>		3	<i>Check for prerequisites</i>
<i>Social and Behavioral Sciences Elective²</i>		<u>3</u>	<i>Check for prerequisites</i>
		15	
	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