



# 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.*

**1516 Catalog**  
Effective Summer 2015

**5250**

*Engineering Technologies/Information Technologies Division    Computer Science and Information Systems Department*

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CPD222	Microsoft SQL Server Database ▲	3	CPD121	
CSE229	Visual Basic Development ▲	3	CSE122	
CSE230	Advanced Visual Basic 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 CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121	
WDD224	Active Server Page Development ▲	3	CSE122 and WDD121	
WDD226	Web Development with PHP and MySQL ▲	3	CSE122 and WDD121	
<b>Total</b>		<b>30</b>		
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 or COM122 or COM123	Effective Speaking or Interpersonal Communication or Small Group Communication	3 or 3 or 3	None or None or ENG124	
CIS126	Fundamentals of Information Systems ▲	3	(ITD105 and ITD106) or ITD122	
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	ENG011 or Proficiency	
ITD122	Computer Applications for Professionals ^	3	ITD100 or Proficiency	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
WDD121	Internet/Intranet Design and Development^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
	Select one (1) Arts & Humanities Elective from the list below <sup>1</sup>	3	<i>Check for prerequisites</i>	
	Select one (1) Social Science Elective from the list below <sup>2</sup>	3	<i>Check for prerequisites</i>	
<b>Total</b>		<b>33</b>		
<b>TOTAL CREDIT HOURS</b>		<b>63</b>		

^Based upon SSC placement score

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

++Minimum grade of "C" required

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

<sup>1</sup>Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

<sup>2</sup>Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221

Revised 2/2015

## 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	<b>and</b> (ITD100 or Proficiency)
ITD122	Computer Applications for Professionals^	3	(IDS102 or Proficiency)
WDD121	Internet/Intranet Design and Development^	<u>3</u>	<b>and</b> (ITD100 or Proficiency)
		<b>13</b>	<b>and</b> (ITD100 or Proficiency)
<u>Second Semester</u>			
CIS126	Fundamentals of Information Systems ▲	3	(ITD105 and ITD106) <b>or</b> ITD122
CSE229	Visual Basic Development ▲	3	CSE122
CSE231	Java Programming ▲	3	CSE122
CSE233	C++ Programming ▲	3	CSE122
ENG124	College Composition^	3	ENG011 <b>or</b> Proficiency
		<b>15</b>	
<u>Summer Semester</u>			
COM121	Effective Speaking	3	None
<b>or</b>	<b>or</b>	<b>or</b>	<b>or</b>
COM122	Interpersonal Communication	3	None
<b>or</b>	<b>or</b>	<b>or</b>	<b>or</b>
COM123	Small Group Communication	3	ENG124
<i>Social Science Elective<sup>2</sup></i>		<u>3</u>	<i>Check for prerequisites</i>
		<b>6</b>	
<u>Third Semester</u>			
CPD222	Microsoft SQL Server Database ▲	3	CPD121
CSE230	Advanced Visual Basic Development ▲	3	CSE229
CSE232	Advanced Java Programming ▲	3	CSE231
CSE234	Advanced C++ Programming ▲	3	CSE233
WDD226	Web Development with PHP and MySQL ▲	<u>3</u>	CSE122 <b>and</b> WDD121
		<b>15</b>	
<u>Fourth Semester</u>			
<i>Arts &amp; Humanities Elective<sup>1</sup></i>		3	<i>Check for prerequisites</i>
CSE236	Analyzing Software Requirements and Developing Solutions ▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) <b>and</b> CPD121
MTH135	Precalculus^— A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 <b>and</b> MTH094)++ <b>or</b> Proficiency
WDD224	Active Server Page Development ▲	<u>3</u>	CSE122 <b>and</b> WDD121
		<b>14</b>	
	<b>TOTAL CREDITS</b>	<b>63</b>	

^Based upon SSC placement score

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

++Minimum grade of "C" required

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

<sup>1</sup>Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

<sup>2</sup>Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221