Stark State COLLEGE

MAP MY ACADEMIC PLAN

ASSOCIATE OF APPLIED SCIENCE

COMPUTER 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.

2025-26 Catalog

Effective Summer 2025

5350

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
CSE231	Java Programming	3	CSE122	
CSE232	Advanced Java Programming	3	CSE231	
CSE233	C++ Programming	3	CSE122	
CSE234	Advanced C++ Programming▲ -	3	CSE233	
EET120	DC Circuit Analysis	4	pre-co-MTH125 **or** pre-co-MTH135	
EET122	AC Circuit Analysis	4	(pre-co-MTH130 **or** pre-co-MTH135) **and** EET120	
EET227	PLC's and Industrial Controls I	3	EST230 **or** EET120	
MTH223	Analytical Geometry and Calculus I^*	4	MTH135	
NET120	PC Upgrading and Maintenance	3		
	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	
CHM141	General Chemistry I^	5	(CHM101 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	
ENG221	Technical Report Writing	3	ENG124	
MTH135	Precalculus^ – *A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.*	5	MTH025 **or** Proficiency	
PHY121	College Physics I with Algebra (lab)^	4	MTH135 **or** (MTH125 and MTH130) **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 on SSC placement score

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

▲- 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

* Students who test directly into Analytical Geometry and Calculus I should contact the Math Department Chair for the possibility of receiving credit for Precalculus.

Students completing this degree may be eligible to also receive a Computer Science and Engineering – C++ Programming Career Enhancement Certificate (5255) and a Computer Science and Engineering – Java Programming Career Enhancement Certificate (5257).

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.

First Semester	Course Title	Credit Hours	Pre- and Co-requisites
SSC101	Student Success Seminar^^	1	*Take first semester*
NET120	PC Upgrading and Maintenance	3	
CSE122	Programming Logic and Problem Solving^	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
ENG124	College Composition^	<u>3</u>	Co-ENG024 **or** Co-ENG011 **or** Proficiency
		13	

Second Semester			
EET120	DC Circuit Analysis	4	pre-co-MTH125 **or** pre-co-MTH135
MTH135	Precalculus^ – *A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.*	5	MTH025 **or** Proficiency
CSE231	Java Programming	3	CSE122
CSE233	C++ Programming	<u>3</u>	CSE122
		15	

Summer Semester			
EET122	AC Circuit Analysis	4	(pre-co-MTH130 **or** pre-co-MTH135) **and** EET120
Arts & Humanities Elective[1]		3	*Check for prerequisites*
Social and Behavioral Sciences Elective[2]		<u>3</u>	*Check for prerequisites*
		10	

Third Semester			
CSE234	Advanced C++ Programming▲ -	3	CSE233
EET227	PLC's and Industrial Controls I	3	EST230 **or** EET120
ENG221	Technical Report Writing	3	ENG124
CSE232	Advanced Java Programming	<u>3</u>	CSE231
		12	

Fourth Semester			
CHM141	General Chemistry I^	5	CHM101 or Proficiency
MTH223	Analytical Geometry and Calculus I^*	4	MTH135
PHY121	College Physics I with Algebra (lab)^	<u>4</u>	MTH135 **or** (MTH125 and MTH130) **or** Proficiency
		13	
	TOTAL CREDITS	**63**	

^Based on SSC placement score

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

▲- 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

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