

Student Name: _____

**Computer & Information Technologies:
Programming Track (60 Total Credit Hrs)**

Maysville Community & Technical College

Open Admissions

Associate in Applied Science (AAS) Degree

Sharon Staviski, Program Coordinator

Phone: (606)-783-1538 ext. 66318 Office: 206E Rowan Campus

Email: Sharon.staviski@kctcs.edu

Academic Plan Code: 1101017089

Academic Sub Code: 110101709

Academic Program Code: ENTC

General Education (15 credit hours)		Credit Hours	Semester Taken
ENG 101	Writing I	3	
MAT 126	Technical Algebra and Trigonometry (or higher)	3	
* Choose (1) Course from the General Education Area			
	*Natural Sciences Course	3	
	*Heritage / Humanities Course	3	
	*Social / Behavioral Sciences Course	3	
Subtotal		15	

Notes:

- It is the responsibility of the student to notify their Advisor of changes they have made to their class schedule. Failure to do so could result in a delayed graduation date or ineligibility for graduation. (*Examples: Online registration, drop/add, or change of class sequence.*)
- Students that are currently taking Developmental Math Courses should work towards completing MAT 126 as soon as possible.
 - MAT 65 must be completed before enrolling into a Level I Networking course; OR Consent of Instructor.
 - MAT 85 must be completed before enrolling into CIT 111 and/or CIT 120; OR Consent of Instructor.
 - MAT 126 is suggested as an approved Quantitative Reasoning course, which must be completed before enrolling into CIT 170; OR Consent of Instructor.
- Certificates may also be completed prior to or while earning an AAS degree. (Refer to MCTC's CIT Program Website).
- AAS Degrees can be transferable to Four-Year Institutions that offer a Baccalaureate Degree. Students should consult their Advisor or Program Coordinator regarding Transfer Agreements.
- Students may only use a course with a grade of "C" or higher to fulfill a core or track graduation requirement.
- In order to obtain an AAS Degree, students are required to maintain a minimum cumulative GPA of 2.0.
- Required minimum ACT, TABE, KYOTE or COMPASS placement scores for general education courses are listed below.

	Math	Reading	Writing
ACT	19	20	18
COMPASS	ALG 25	85	74
KYOTE	CA 14 or higher	N/A	N/A
TABE	N/A	12.2-12.9	12.8.12.9

Core Requirements		Credit Hours	Semester Taken
CIT 105	Introduction to Computers	3	
CIT 111	Computer Hardware and Software	4	
CIT 120	Computational Thinking	3	
CIT 170	Database Design Fundamentals	3	
CIT 180	Security Fundamentals	3	
	Approved Level I Networking Course	4	
	Approved Level I Programming Language Course	3	
CIT 293	CIT Employability Studies	1	
Subtotal		24	

Approved Level I Programming Language Courses (Choose (1) Course)		Credit Hours	Semester Taken
CIT 140	JavaScript I	3	
CIT 141	PHP I	3	
CIT 142	C++ I	3	
CIT 143	C# I	3	
CIT 144	Python I	3	
CIT 145	Perl I	3	
CIT 147	Programming I: Language	3	
CIT 148	Visual Basic I	3	
CIT 149	Java I	3	
CIT 171	SQL I	3	
	University Level I programming language as approved by Program Coordinator	3-4	

Programming Track (12 Credit Hours)		Credit Hours	Semester Taken
	Level II Programming Language	3	
	Level I, II or III Programming Language	3	
	Approved CIT Technical Course	3	
Completion of one sequence from back:		12	
Track Subtotal		21	

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Information Systems Specialization Sequence (12 Credit Hours)		Credit Hours	Semester Taken
CIT 171	SQL I	3	
	Approved CIT Technical Course	3	
	Approved Business Course	3	
	Approved Management or Business Course	3	
Subtotal		12	

Software Development Specialization Sequence (12 Credit Hours)		Credit Hours	Semester Taken
	Approved Level I Programming Language Course	3	
	Approved Level II Programming Language Course	3	
CIT 150	Internet Technologies OR	3	
CIT 155	Web Page Development OR	3	
CIT 157	Web Design and Production	3	
CIT 253	Data-Driven Web Pages: Topic	3	
Subtotal		12	

Approved Level II Programming Language Courses (Choose 1 OR 2 Courses)		Credit Hours	Semester Taken
CIT 241	PHP II	3	
CIT 242	C++ II	3	
CIT 243	C# II	3	
CIT 244	Python II	3	
CIT 246	2D Game Development: Language	3	
CIT 247	Programming II: Language	3	
CIT 248	Visual Basic II	3	
CIT 249	Java II	3	
CIT 271	SQL II (Required)	3	
	University Level II programming language as approved by program coordinator	3-4	

Approved Level III Programming Language Courses (May Choose 1 Course, if desired)		Credit Hours	Semester Taken
CIT 276	3D Game Development: Language	3	
CIT 277	Programming III: Language	3	
CIT 278	Visual Basic III	3	
	University Level III programming language as approved by program coordinator	3-4	

****Technical Course Notes:**

- May choose any CIT Course(s), (EXCEPT CIT 103), or other courses approved by Computer & Information Technologies Program Coordinator.
- Students may choose CIT 290 or COE 199 for a maximum of 3 credit hours.
- Students may NOT use one course to fulfill multiple requirements

Program Description

The **Computer Information Technology (CIT)** program includes tracks in Applications, Information Security, Internet Technologies, Network Administration, Network Technologies, and Programming, with a core of courses common to all. The core includes a general education component essential to a collegiate education and a technical component giving students an introduction to information systems, computer applications, program development, system maintenance, networking, security, Internet technologies, database design, and collaborative system development. In addition to core courses, students take specialty courses for their selected track.

The **Programming Track** prepares students to design, develop, and maintain computer programs written in current and emerging programming languages. With tracks in Information Systems and Software Development, students successfully completing this track are prepared for entry-level positions in computer programming.

The **Programming Track – Software Development Option** emphasizes computer software development. Students completing the Software Development track study a minimum of two computer programming languages at an advanced level and additional programming language(s) at an introductory level. Flexibility within this track allows students to focus on a specific area of software development by means of the programming languages they choose to study (object-oriented programming, database programming, game development, etc.).

Upon completion of this program, the graduate can:

1. Demonstrate proficiency in problem solving and critical thinking skills in programming.
2. Demonstrate proficiency in programming.
3. Demonstrate proficiency in productivity software.
4. Demonstrate proficiency in written and electronic communications as they relate to program documentation.

Total Credit Hours: 60