

MCC Career and Technical Education (CTE) Program: AAS Computer Science & Information Systems – Software Development

Assessment methods include: Exams, Projects, and/or Presentations.

Outcome #1: *Use industry specific software and/or apply troubleshooting skills to solve problems.*

Program Outcome Performance Indicator	Assessed in Courses
Design and implement information technology solutions using appropriate software tools and techniques.	CSIS 123 CSIS 223 CSIS 128 CSIS 228 CSIS 143 CSIS 152 CSIS 161 CSIS 279 CSIS 290
Properly document generated code to facilitate future maintenance.	CSIS 123 CSIS 223 CSIS 222 CSIS 128 CSIS 228 CSIS 279
Implement and test web solutions using appropriate software tools.	CSIS 128 CSIS 228 CSIS 279
Demonstrate skills necessary to identify vulnerabilities in information systems.	CSIS 170
Use a variety of scripting tools to automate routine tasks.	CSIS 123 CSIS 222 CSIS 223 CSIS 128 CSIS 228 CSIS 279 CSIS 290

Outcome #2: *Create and defend solutions to real life business challenges.*

Program Outcome Performance Indicator	Assessed in Courses
<p>Define problems and its boundaries using both qualitative and quantitative methods.</p>	<p>CSIS 110 CSIS 115 CSIS 123 CSIS 223 CSIS 128 CSIS 228 CSIS 222 CSIS 143 CSIS 152 CSIS 161 CSIS 170 CSIS 279 CSIS 290</p>
<p>Apply security, ethical, social, economic, user, and hardware requirements during the design phase.</p>	<p>CSIS 110 CSIS 115 CSIS 123 CSIS 223 CSIS 128 CSIS 228 CSIS 222 CSIS 143 CSIS 152 CSIS 161 CSIS 170 CSIS 279 CSIS 290</p>

Outcome #3: *Demonstrate professional oral and written communication skills.*

Program Outcome Performance Indicator	Assessed in Courses
Create business communications documents that are easily understood by others with clearly organized content.	BSAD 221 CSIS 115 CSIS 290
Generate documentation organized in accordance with MLA/APA (or other) guidelines.	CSIS 115
Utilize technological presentation tools in an effective manner.	CSIS 115
Communicates clearly and professionally when interviewed.	CSIS 290

Outcome #4: *Work effectively in a team environment.*

Program Outcome Performance Indicator	Assessed in Courses
Communicate clearly with other team members using oral and written communications.	CSIS 290
Perform assigned role in team effectively.	CSIS 290
Utilize leadership and project management skills to facilitate team activity.	CSIS 290

Outcome #5: *Recognize the need for continued professional development.*

Program Outcome Performance Indicator	Assessed in Courses
Use resource materials (library, Internet, professional publications, databases) effectively.	CSIS 110 CSIS 115 CSIS 123 CSIS 223 CSIS 128 CSIS 228 CSIS 222 CSIS 143 CSIS 152 CSIS 161 CSIS 170 CSIS 279 CSIS 290
Demonstrate knowledge of IT professional roles and benefits.	CSIS 110 CSIS 115 CSIS 123 CSIS 223 CSIS 128 CSIS 228 CSIS 222 CSIS 143 CSIS 152 CSIS 161 CSIS 170 CSIS 279 CSIS 290
Recognize limits of capabilities and seeks additional information when needed.	CSIS 110 CSIS 115 CSIS 123 CSIS 223 CSIS 128 CSIS 228 CSIS 222 CSIS 143 CSIS 152 CSIS 161 CSIS 170 CSIS 279 CSIS 290
Communicates clearly and professionally when interviewed.	CSIS 290