



Post-Secondary Credit Agreement
(2+2+2) Program of Study
 School Year: 2024-2029

Davenport University

CTE Agency: Michigan Department of Education - Office of Career and Technical Education

State-Approved CTE Program Name:

COMPUTER PROGRAMMING/PROGRAMMER

Secondary Program CIP Code Number:

11.0201

PSN Number from CTEIS System:



Freshman - 9th grade		Sophomore - 10th grade		Junior - 11th grade		Senior - 12th grade	
1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester
English 9	English 9	English 10	English 10	English 11	English 11	English 12	English 12
Algebra I	Algebra I	Geometry	Geometry	Algebra II	Algebra II	Math Credit	Math Credit
Biology	Biology	Chemistry or Physics	Chemistry or Physics	Civics/Econ	Civics/Econ	Science Credit	Science Credit
US History/Geography	US History/Geography	World History/Geography	World History/Geography	CTE COMPUTER PROGRAMMING/PROGRAMMER		CTE COMPUTER PROGRAMMING/PROGRAMMER	
PE/Health	PE/Health	Fine Arts/Music/Visual/ Performing/and Applied Arts	Fine Arts/Music/Visual/ Performing/and Applied Arts				
World Language	World Language	World Language	World Language				

Davenport University Degree:

**BS, COMPUTER INFORMATION SYSTEMS
 WEB & MOBILE DEVELOPMENT SPECIALTY**

Davenport University CIP Code:

11.0801

Grade 13				Grade 14			
1st Semester		2nd Semester		1st Semester		2nd Semester	
ACES100	Achieving Career and Education Success	CISP247	Database Design	CSCI312	Data Structures and Algorithms	BUSN210	Professional Ethics
CISP111	Requirements Planning and Development	COMM120	Presentation Techniques	MGMT211	Management Foundations	CISP220	Web Page Applications
CSCI231	Introduction to Programming	CSCI232 or CSCI234 or CSCI239	Object-Oriented Programming with C++ or Object-Oriented Programming with C# or Object-Oriented Programming with Java	SOSC201	Diversity in Society	CISP309	Database Systems
ENGL109	Composition	ENGL110	Advanced Composition	TECH247	Cloud Computing	MATH140 or MATH215	Finite Mathematics or Calculus I
MATH120	College Mathematics	MATH150	Pre-calculus	Open Elective		STAT220	Introduction to Statistics

Grade 15				Grade 16			
1st Semester		2nd Semester		1st Semester		2nd Semester	
ACCT200 or ACCT201	Accounting Basics for Managers or Accounting Foundations I	CISP211	E-Business Foundations	CISP303	Web Development	ENGL311	Professional Writing
BITS301	Image Editing Applications	CISP310	Server Side Scripting II	CISP340	Mobile Application Development I	CISP316	Web Design
CISP238	Server Side Scripting I	DATA275	Introduction to Data Analytics	CISP401	Systems Analysis and Design	CISP341	Mobile Application Development II
GPMT287	Principles of Project Management	SOSC301	Globalization and World Diversity	CSCI342	Advanced Object-Oriented Programming	TECH497	College of Technology Capstone
MATH250	Discrete Structures	Open Elective		CISP490 or TECH489	CIS Internship or Field Experience in Technology	Open Elective	

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 Secondary Program CIP Code Number: **11.0201**
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1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester	1st Semester	2nd Semester
English 9	English 9	English 10	English 10	English 11	English 11	English 12	English 12
Algebra I	Algebra I	Geometry	Geometry	Algebra II	Algebra II	Math Credit	Math Credit
Biology	Biology	Chemistry or Physics	Chemistry or Physics	Civics/Econ	Civics/Econ	Science Credit	Science Credit
US History/Geography	US History/Geography	World History/Geography	World History/Geography	CTE COMPUTER PROGRAMMING/PROGRAMMER		CTE COMPUTER PROGRAMMING/PROGRAMMER	
PE/Health	PE/Health	Fine Arts/Music/Visual/ Performing/and Applied Arts	Fine Arts/Music/Visual/ Performing/and Applied Arts				
World Language	World Language	World Language	World Language				

Davenport University Degree: **BS, COMPUTER SCIENCE
GAMING AND SIMULATION SPECIALTY**
 Davenport University CIP Code: **11.0701**

Grade 13				Grade 14			
1st Semester		2nd Semester		1st Semester		2nd Semester	
ACES100	Achieving Career and Education Success	CISP247	Database Design	CSCI260	Software Engineering	COMM120	Presentation Techniques
CISP111	Requirements Planning and Development	CSCI234	Object-Oriented Programming with C#	CSCI312	Data Structures and Algorithms	CSCI222	Biometrics Fundamentals
CSCI231	Introduction to Programming	ENGL110	Advanced Composition	MATH215	Calculus I	CSCI258	Introduction to Game Design
ENGL109	Composition	IAAS221	Security Foundations	MATH250	Discrete Structures	CSCI280	Artificial Intelligence
MATH120	College Mathematics	MATH150	Pre-calculus	NETW220	Data Communications and Networks	SOSC201	Diversity in Society

Grade 15				Grade 16			
1st Semester		2nd Semester		1st Semester		2nd Semester	
BUSN210	Professional Ethics	CSCI268	Assembly Language and Computer Architecture	CSCI380	Computer Vision	CSCI430	Operating Systems
CSCI335	2D Game Development	CSCI370	3D Game Development	CSCI448	Collaborative Game Development	CSCI436	Concepts of Programming Languages
CSCI420	Parallel and Distributed Systems	MATH350	Differential Equations with Modeling	CSCI490 or TECH489	Computer Science Internship or Field Experience in Technology	CSCI440	Introduction to Modeling and Simulation
ENGL311	Professional Writing	PHYS100 and PHYS100L	Applied Physics and Applied Physics Lab	PHYS210 and 210L	Fundamentals of Physics 1 and Fundamentals of Physics 1 Lab	CSCI497	Computer Science Capstone
MATH205	Linear Algebra	SOSC301	Globalization and World Diversity			Open Electives	

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Algebra I	Algebra I	Geometry	Geometry	Algebra II	Algebra II	Math Credit	Math Credit
Biology	Biology	Chemistry or Physics	Chemistry or Physics	Civics/Econ	Civics/Econ	Science Credit	Science Credit
US History/Geography	US History/Geography	World History/Geography	World History/Geography	CTE COMPUTER PROGRAMMING/PROGRAMMER		CTE COMPUTER PROGRAMMING/PROGRAMMER	
PE/Health	PE/Health	Fine Arts/Music/Visual/ Performing/and Applied Arts	Fine Arts/Music/Visual/ Performing/and Applied Arts				
World Language	World Language	World Language	World Language				

Davenport University Degree: **BS, NETWORK MANAGEMENT & SECURITY**
NETWORK SECURITY SPECIALTY
 Davenport University CIP Code: **11.0901**

Grade 13				Grade 14			
1st Semester		2nd Semester		1st Semester		2nd Semester	
ACES100	Achieving Career and Education Success	COMM120	Presentation Techniques	BITS211	Microcomputer Applications: Spreadsheet	BUSN210	Professional Ethics
ENGL109	Composition	ENGL110	Advanced Composition	NETW141	MS Client and Server OS	IAAS224	Implementing Network Security
MATH120 or MATH125	College Mathematics or Intermediate Algebra	MATH135 or MATH150 or MATH215	College Algebra or Pre-Calculus or Calculus I	NETW217	UNIX Operating Systems	NETW201	PC Maintenance and Management
NETW101	PC Operating Systems	MGMT211	Management Foundations	NETW251	Cisco Enterprise Networking	NETW241	MS Implement Network Infrastructure
NETW151	Cisco Networking Fundamentals	NETW152	Cisco Routing and Switching	SOSC201	Diversity in Society	NETW253	Cisco Network Programmability

Grade 15				Grade 16			
1st Semester		2nd Semester		1st Semester		2nd Semester	
ACCT200 or ACCT201	Accounting Basics for Managers or Accounting Foundations I	ENGL311	Professional Writing	IAAS481	Information Security and Assurance	IAAS482	Vulnerability and Assessment
GPMT287	Principles of Project Management	IAAS322	Network Defense/Countermeasure	NETW325 or NETW326	Wireless Networking and Security or IP Telephony	NETW490 or TECH489	Networking Internship or Field Experience in Technology
IAAS240	Cisco Cyber Operations	STAT220	Introduction to Statistics	NETW440	Network Design and Management	TECH497	College of Technology Capstone
IAAS245	Disaster Recovery	Science Elective		SOSC301	Globalization and World Diversity	Open Elective	
IAAS321	Securing the Infrastructure	Open Elective		Open Elective		Open Elective	

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Algebra I	Algebra I	Geometry	Geometry	Algebra II	Algebra II	Math Credit	Math Credit
Biology	Biology	Chemistry or Physics	Chemistry or Physics	Civics/Econ	Civics/Econ	Science Credit	Science Credit
US History/Geography	US History/Geography	World History/Geography	World History/Geography	CTE COMPUTER PROGRAMMING/PROGRAMMER		CTE COMPUTER PROGRAMMING/PROGRAMMER	
PE/Health	PE/Health	Fine Arts/Music/Visual/ Performing/and Applied Arts	Fine Arts/Music/Visual/ Performing/and Applied Arts				
World Language	World Language	World Language	World Language				

Davenport University Degree: **BS, NETWORK MANAGEMENT & SECURITY
 SERVER ADMINISTRATION SPECIALTY**
 Davenport University CIP Code: **11.0901**

Grade 13				Grade 14			
1st Semester		2nd Semester		1st Semester		2nd Semester	
ACES100	Achieving Career and Education Success	COMM120	Presentation Techniques	BIT211	Microcomputer Applications: Spreadsheet	BUSN210	Professional Ethics
ENGL109	Composition	ENGL110	Advanced Composition	NETW141	MS Client and Server OS	IAAS224	Implementing Network Security
MATH120 or MATH125	College Mathematics or Intermediate Algebra	MATH135 or MATH150 or MATH215	College Algebra or Pre-Calculus or Calculus I	NETW217	UNIX Operating Systems	NETW201	PC Maintenance and Management
NETW101	PC Operating Systems	MGMT211	Management Foundations	NETW251	Cisco Scaling Networks	NETW241	MS Implement Network Infrastructure
NETW151	Cisco Networking Fundamentals	NETW152	Cisco Routing and Switching	SOSC201	Diversity in Society	NETW253	Cisco Network Programmability

Grade 15				Grade 16			
1st Semester		2nd Semester		1st Semester		2nd Semester	
ACCT200 or ACCT201	Accounting Basics for Managers or Accounting Foundations I	ENGL311	Professional Writing	NETW325 or NETW326	Wireless Networking and Security or IP Telephony	NETW490 or TECH489	Networking Internship or Field Experience in Technology
GPMI287	Principles of Project Management	NETW235	UNIX/Linux Server Administration	NETW435	Virtualization	TECH497	College of Technology Capstone
IAAS240	Cisco Cyber Operations	NETW243	MS Administer SQL Server	NETW440	Network Design and Management	Open Elective	
IAAS245	Disaster Recovery	STAT220	Introduction to Statistics	SOSC301	Globalization and World Diversity	Open Elective	
NETW341	MS Plan and Implement Active Directory	Science Elective		Open Elective		Open Elective	

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Biology	Biology	Chemistry or Physics	Chemistry or Physics	Civics/Econ	Civics/Econ	Science Credit	Science Credit
US History/Geography	US History/Geography	World History/Geography	World History/Geography	CTE COMPUTER PROGRAMMING/PROGRAMMER		CTE COMPUTER PROGRAMMING/PROGRAMMER	
PE/Health	PE/Health	Fine Arts/Music/Visual/Performing/and Applied Arts	Fine Arts/Music/Visual/Performing/and Applied Arts				
World Language	World Language	World Language	World Language				

Davenport University Degree: **BS, TECHNOLOGY PROJECT MANAGEMENT
COMPUTER INFORMATION SYSTEMS SPECIALTY**
 Davenport University CIP Code: **11.0501**

Grade 13				Grade 14			
1st Semester		2nd Semester		1st Semester		2nd Semester	
ACES100	Achieving Career/Education Success	BITS211	Microcomputer Applications: Spreadsheet	ACCT201	Accounting Foundations I	BUSN210	Professional Ethics
CISP111	Requirements Planning/Development	ENGL110	Advanced Composition	GPMT287	Principles of Project Management	CISP247	Database Design
COMM120	Presentation Techniques	MATH135 or MATH150	College Algebra or Pre-Calculus	IAAS221	Security Foundations	LEGL210	Business Law Foundations
ENGL109	Composition	MGMT211	Management Foundations	SOSC201	Diversity in Society	MATH140 or MATH215 or STAT322	Finite Mathematics or Calculus or Inferential Statistics
MATH120	College Mathematics	Open Elective		STAT220	Introduction to Statistics	Open Elective	

Grade 15				Grade 16			
1st Semester		2nd Semester		1st Semester		2nd Semester	
CSCI231	Introduction to Programming	CISP211	E-Business	CISP401	Systems Analysis & Design	GMPT446	Project Quality Management
ENGL311	Professional Writing	CSCI232 or CSCI234 or CSCI239	Object-Oriented Programming with C++ or Object-Oriented Programming with C# or Object Oriented Programming with Java	GPMT400	Project Financial / Risk Analysis	GPMT490	Project Management Internship
GPMT385	Project Scheduling with Agile	DATA275	Introduction to Data Analytics	MGMT375	Leadership Theory and Discovery	BUSN225 or GPMT290 or GPMT499 or SABR381 or	International Business or Project Management Internship or Cert Project Mgmt Professional (PMP) [®] Prep or Study Abroad or Foreign Language
MATH250	Discrete Structures	GPMT410	Global Sourcing for Projects	SOSC301	Globalization and World Diversity	TECH497	College of Technology Capstone
Open Elective		Open Elective		Open Elective		Open Elective	

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