

<b>Computer Programming</b>		<b>2023 - 2024</b>
<b>Course ID:</b>	<b>Title:</b>	<b>Credits</b>
<b>Technical Studies:</b>		
CMSC1203	Structured Programming Logic	3
CMSC1206	Introduction to Information Technology	3
CMSC1212	Web Markup Language	3
CMSC1217	Introduction to Data Analytics	3
CMSC1216	Database Modeling I	3
CMSC1236	Java Programming	4
CMSC1228	Client Side Programming	3
CMSC1255	Server Side Programming	3
CMSC2201	Database Modeling II	3
CMSC2203	C# Programming I	3
CMSC2204	Mobile Device Programming	3
CMSC2205	Internship	3
CMSC2240	C# Programming II	3
CMSC2279	Systems Analysis & Design	3
		<b>43</b>
<b>Liberal Arts:</b>		
	MNTC Goal Area 1 WRITTEN	4
	MNTC Goal Area 1 ORAL	3
MATH1300	College Algebra	3
MATH 1351	Introductory Statistics	4
	MNTC Goal Area 5 OR 6 OR 9	3
		<b>17</b>
<b>Total Credits:</b>		<b>60</b>

<b>Computer Programming</b>		<b>2023 - 2024</b>
<b>Semester 1:</b>	<b>(16 weeks) Fall Sem. - 1st Year</b>	<b>Credits</b>
CMSC1203	Structured Programming Logic	3
CMSC1206	Introduction to Information Technology	3
CMSC1212	Web Markup Language	3
	MNTC Goal Area 5 OR 6 OR 9	3
	MNTC Goal Area 1 WRITTEN	4
	Subtotal credits:	<b>16</b>
<b>Semester 2:</b>	<b>(16 weeks) Spring Sem. - 1st Year</b>	<b>Credits</b>
CMSC1216	Database Modeling I	3
CMSC1217	Data Analytics	3
CMSC1236	Java Programming	4
MATH 1351	Introductory Statistics	4
	Subtotal credits:	<b>14</b>
<b>Semester 3:</b>	<b>(16 weeks) Fall Sem. - 2nd Year</b>	<b>Credits</b>
CMSC2201	Database Modeling II	3
CMSC2203	C# Programming I	3
CMSC1255	Server Side Programming	3
CMSC2204	Mobile Device Programming/Connectivity	3
MATH1300	College Algebra	3
	Subtotal credits:	<b>15</b>
<b>Semester 4:</b>	<b>(16 weeks) Spring Sem. - 2nd Year</b>	<b>Credits</b>
CMSC2240	C# Programming II	3
CMSC1228	Client Side Programming	3
CMSC2279	Systems Analysis & Design	3
CMSC2205	Internship	3
	MNTC Goal Area 1 ORAL	3
	Subtotal credits:	<b>15</b>
<b>Total Credits:</b>		<b>60</b>

## **New students - Computer Programming**

A degree in Computer Programming from SCTCC gives graduates flexibility to work almost anywhere. Our students gain a variety of software development skills needed to succeed in the workforce. SCTCC graduates know how to identify program requirements and then create, test, and debug applications in order to meet employer and customer specifications.

Our students learn programming for embedded applications, mobile, web, and databases. We give students the opportunities to design and write programs for e-commerce, business applications, network and mobile environments so they are prepared for real-world applications after graduation.

## **Transfer Options**

Start at SCTCC to learn the foundational knowledge needed to earn a bachelor's degree at Saint Cloud State University or Minnesota State University Moorhead in Information Systems (SCSU) or Cybersecurity (MSUM).

## **This program is offered 100% online.**

To ensure every student can finish their coursework, all SCTCC students in the Computer Programming program are required to have access to, or purchase a computer (laptop or desktop) that meets the minimum requirements outlined below:

- Intel i5 or better processor (or AMD equivalent) - Virtualization must be supported.
- Current Windows Operating System
- 500 GB or larger SSD
- Minimum 8 GB of RAM (16GB or more RAM recommended)
- Webcam required.
- Access to High-Speed Internet required.
- Second monitor recommended.

### **Apple computers do not meet the requirements for the program.**

Students must have their computers before the start of the semester as they are needed on the first day of classes.

If you have questions on the SCTCC Computer Programming A.A.S. degree program, please contact using the contact information listed below.

### **Joseph Silman**

Computer Programming Faculty  
St. Cloud Technical & Community College  
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320.308.6595 (Office) | [jsilman@sctcc.edu](mailto:jsilman@sctcc.edu) | [sctcc.edu](http://sctcc.edu)

## **Laptop Requirements Fall 2023**

First-year students in the programs listed below are required to purchase laptop computers and software. Laptops running Windows 10 are highly recommended. Apple computers using MAC OS or Apple devices using iOS, Chromebooks or tablets using Android OS are not recommended for use with the following programs.

### **Programs requiring personal computers:**

- Architectural Construction Technology
- Computer-Aided Mechanical Design Technology
- Computer Programming
- Land Surveying/Civil Engineering Technology
- Energy & Electronics:
  - Mechatronics
  - Energy Technical Specialist
  - Robotics and Automation
  - Instrumentation and Process Control
- Information Technology:
  - Network Administration
  - Cyber Security
  - PC Specialist

Students in programs requiring laptops may order their laptop computers from a recommended vendor. The recommended company, Now Micro, has established a website for our students' use and their prices will be posted on the site. Sales tax will be added to the cost of computers and software. The recommended laptops are dependable and capable of performing the functions needed. They are high-end computers that will perform well during college years as well as after graduation.

### **Instructions for Purchasing SCTCC Standard Laptop Bundles**

1. Go to the vendor website where you will find laptop pricing and specifications. Vendor site: <https://portal.nowmicro.com>
2. Register as an individual and follow the prompts to set-up online profile or login in if you already have an account.
3. Once you submitted registration, please check your email for password.
4. Once logged into the store site, enter keyword "SCTCC" under the product search to access school-approved laptop bundle options.

**\*NOTE:** Customers must select Credit Card as Payment Method, and either FedEx Ground or Will Pick Up at Store as Delivery Method. Orders that do not comply with these instructions will not be processed.