

# INFORMATION TECHNOLOGY-PROGRAMMING AND DEVELOPMENT, POST-DEGREE PROFESSIONAL CERTIFICATE



Post-graduate certificate designed to update or enhance skills in object-oriented technologies. Students will experience the object-oriented environment of programming, database and Web technologies.

This program is available to be completed 100% online.

**Program contact:** Learn more

This certificate will be automatically awarded when the certificate requirements are completed. If you do not want to receive the certificate, please notify the Office of the Registrar at [RegistrarOffice@tri-c.edu](mailto:RegistrarOffice@tri-c.edu).

Learn more about how certificate credits apply to the related degree and about related training programs.

## Program Admission Requirements

- MATH-1190 Algebraic and Quantitative Reasoning or MATH-0965 Intermediate Algebra or qualified Math Placement.
- Associate degree or higher required

## Program Learning Outcomes

This program is designed to prepare students to demonstrate the following learning outcomes:

1. Operate in a diverse team environment with professionalism, integrity and accountability.
2. Explain and implement technologies that are impacted by legal and ethical issues.
3. Plan, organize and prioritize tasks in order to meet project deadlines.
4. Adapt to change within their profession by demonstrating a commitment to continuous research and learning.
5. Apply knowledge of programming, website maintenance, operating systems, networking and security to install, configure, troubleshoot and provide ongoing support and maintenance for technology related organizational systems.
6. Apply knowledge of programming (application, web, data and security) at the enterprise level and use industry standards, guidelines and use appropriate tools to gather requirements, develop, test and quality assure organizational information technology business systems (new and existing).

7. Work as part of a development team using industry standards and guidelines.

## Suggested Semester Sequence

First Semester		Credit Hours
IT-1025	Information Technology Concepts for Programmers	3
IT-1050	Programming Logic	3
IT-2310	Web Programming	3
<b>Credit Hours</b>		<b>9</b>
Second Semester		
IT-2320	Interactive Internet Programming	4
IT-2351	Enterprise Database Systems	4
IT-2650	Java Programming	4
<b>Credit Hours</b>		<b>12</b>
Third Semester		
IT-2030	ASP.NET Web Programming	4
IT-2660	Data Structures & Algorithms	4
IT-2700	Systems Analysis and Design	3
<b>Credit Hours</b>		<b>11</b>
<b>Total Credit Hours</b>		<b>32</b>

MATH-1140, MATH-1141, MATH-1200, MATH-1270, and MATH-1280 can no longer count towards fulfilling the college-level mathematics requirement. These courses were re-classified as developmental mathematics by the state of Ohio in 2016. Tri-C established a 5-year transitioning window for students who had completed these courses prior to 2016 to apply them towards meeting graduation requirements, which expired in Summer 2021. It is highly recommended to see a counselor to determine the appropriate math required for your current major.