



Effective 2015/2016

Career Cluster ►



Career Pathway ►

Programming and Software Development

IT – SOFTWARE DEVELOPER

(10-152-1)

Associate of Applied Science Degree
Most Courses Offered at Kenosha Campus

| Δ Suggested Sequence | ✓ | Course Number | Course Title | Requisites | Credits | Hrs/Wk Lec - Lab |
|---|-----------|--|--|--|---------|------------------|
| Semester 1 | | 107-011 * | IT in Business | | 3 | 2-2 |
| | | 152-105 * | System i Concepts | Coreq: 107-011 | 2 | 1-2 |
| | | 152-126 * | Intro to Prog. & Database Concepts | | 4 | 3-2 |
| | | 801-136 | English Composition 1 | Prereq: 831-103 (See Note 1) | 3 | 3-0 |
| | | 804-133 | Mathematics and Logic | Prereq: 834-110 (See Note 1) | 3 | 3-0 |
| | | 801-196 OR 801-198 | Oral/Interpersonal Communication Speech | Prereq: 838-105 (See Note 1) | 3 | 3-0 |
| Semester 2 | | 152-133 * | System I Control Language | Prereq: 152-105 | 2 | 1-2 |
| | | 152-141 * | Java Programming – IBM iSeries | Prereq: 152-126; 152-105 | 3 | 2-2 |
| | | 152-145 * | Internet Programming | Prereq: 152-126 | 3 | 2-2 |
| | | 152-151 * | Microcomputer Prog. Advanced | Prereq: 152-126 | 3 | 2-2 |
| | | 801-197 | Technical Reporting | Prereq: 801-136 | 3 | 3-0 |
| Semester 3 | | 152-093 * | IBM Advanced Java Programming | Prereq: 152-141; 152-145 | 3 | 2-2 |
| | | 152-122 * | Computer Programming RPG/IV (ILE) | Prereq: 152-105; 152-126 | 3 | 2-2 |
| | | 152-168 * | IBM and .NET Enterprise Programming | Prereq: 152-151 | 3 | 2-2 |
| | | 809-195 OR 809-144 | Economics Macroeconomics | Prereq: 838-105 (See Note 1) | 3 | 3-0 |
| | | 809-198 | Psychology, Introduction to | Prereq: 838-105 (See Note 1 & 3) | 3 | 3-0 |
| Semester 4 | | 152-125 * | Computer Program, RPG/IV (ILE) Adv. | Prereq: 152-122 | 3 | 2-2 |
| | | 152-131 * | Systems Design / Development | Prereq: 152-122 | 3 | 2-2 |
| | | 152-158 * | DB/UDB Programming | Prereq: 152-126; 152-105 | 3 | 2-2 |
| | | 152-167 * | IBM Zend Application Programming | Prereq: 152-141 | 3 | 2-2 |
| | | 809-196 OR 809-172 | Sociology, Introduction to Diversity Studies, Introduction to | Prereq: 838-105 (See Note 1) Prereq: 838-105 (See Note 1 & 3) | 3 | 3-0 |
| | Electives | Take 6 elective credits. Any associate degree level course may be taken as an elective. | | | | 6 |
| Suggested Electives: 152-124 Computer Programming C++ (3 Cr) 152-165 Mobile App Development Apple iOS (3 Cr) 152-149 IBM i Systems Administration (3 Cr) 152-166 Mobile Application Dev. Windows (3 Cr) 152-164 Mobile Device Programming (3 Cr) 809-112 Principles of Sustainability (3 Cr) | | | | | | |

Minimum Program Total Credits Required

68

Δ Courses may be taken out of suggested sequence as long as requisites have been met.



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PROGRAM DESCRIPTION

IT-Software Developer covers the rapidly changing field of Information technology with its multiple job opportunities; it may be completed in four semesters if taken full-time. The curriculum includes various types of programming, program analysis, and system software. Typical entry-level positions are entry-level programmer and computer operator.

ADMISSION REQUIREMENTS

1. Students must submit an application & \$30 fee.
2. Students must complete reading, writing, math, and computer skills placement assessments.
3. Students must submit official high school, GED, or HSED transcript.

GRADUATION REQUIREMENTS

1. Minimum 68 credits with an average of 2.0 or above.
2. *Minimum of 2.0 ("C") or above for these major courses.

For a complete list of Graduation Requirements check the Student Handbook.

PROGRAM LEARNING OUTCOMES

Graduates of the IT-Software Developer Associate Degree Program should be able to:

1. Develop interactive programs utilizing structured programming techniques.
2. Code on multiple platforms.
3. Be prepared for entry in the computer field.
4. Assess computer hardware and software needs.
5. Communicate effectively with IT, end-users, teams, and management.
6. Develop and document IT (Information Technology) environments.

NOTES

1. A satisfactory placement test score (or successful remediation) is required prior to enrollment. See an advisor for details.
2. Any course may be taken prior to entry in the program, assuming prerequisites and corequisites have been satisfied (or waived with departmental approval).
3. Transfer credits in Social Science may substitute for this course. See an advisor for details.

CORE ABILITIES

Gateway believes students need both technical knowledge and skills and core abilities in order to succeed in a career and in life. The following nine core abilities are the general attitudes and skills promoted and assessed by all Gateway programs. All Gateway graduates should be able to:

- | | |
|--|---|
| 1. Act responsibly | 6. Respect themselves and others as a member of a diverse community |
| 2. Communicate clearly and effectively | 7. Think critically and creatively |
| 3. Demonstrate essential comp. skills | 8. Work cooperatively |
| 4. Demonstrate essential math skills | 9. Value learning |
| 5. Develop job seeking skills | |

OTHER INFORMATION

Gateway Technical College reserves the right to modify curriculum requirements for students who interrupt enrollment for a period of two years or take over seven years to complete. Tuition and material fees are determined by the board of the Wisconsin Technical College System. Consult Web Advisor for exact fee amounts. Occasionally, the District may offer a particular course out of published sequence. By doing so, the District does not obligate itself to offer succeeding courses out of published sequence.

**EQUAL OPPORTUNITY EMPLOYER AND EDUCATOR
EMPLEADOR Y EDUCADOR QUE OFRECE IGUALDAD DE OPORTUNIDADES**

To schedule an appointment with an advisor, please call 1-800-247-7122.

For a complete list of course descriptions (and possible online courses) for this program, please consult Web Advisor on our web page at www.gtc.edu.

My advisor is _____. My advisor's contact information is _____.