

IT – Software Developer (10-152-1)

Associate of Applied Science

Effective 2026/2027

The course sequence shown on this sheet is the recommended path to completion. Courses will be scheduled in the terms indicated here. All courses should be taken in the order shown to help you stay on track and graduate according to your academic plan. Courses in this program may be offered in a variety or combination of formats (for example: in-person, video conferencing, online, etc.). More detailed scheduling information for this program can be found at <https://www.gtc.edu/software-developer>. Please see your academic advisor for additional information.

R-D= Racine/days, F=Fall, S=Spring, SU=Summer

Term	Course Number	Credits	Course Title	Requisites (prereq- before/ coreq-with)	Notes	R-D
1	890-155	1	Gateway to Success (G2S)		• Students are required to take this course in their first semester of enrollment. Please see an advisor for details.	F
1	*107-011	3	IT in Business			F
1	*152-126	4	Intro to Prog. & Database Concepts		• Faculty have identified this milestone course as providing a strong foundation for success throughout the program.	F
1	*152-105	2	IBM Enterprise System Concepts	Coreq: 107-011	• Faculty have identified this milestone course as providing a strong foundation for success throughout the program.	F
1	804-134 OR 804-115	3 5	Mathematical Reasoning OR College Technical Math 1	Prereq: 854-760 Prereq: 834-110	• Satisfactory college placement results (through multiple measures or placement test scores) or successful remediation is required prior to enrollment. See an advisor for details.	F
2	*152-133	2	IBM Control Language	Prereq: 152-105		S
2	*152-141	3	Java Programming – IBM Systems	Prereq: 152-126; 152-105	• Faculty have identified this milestone course as providing a strong foundation for success throughout the program.	S
2	*152-145	3	Internet Programming	Prereq: 152-126		S
2	*152-151	3	Microcomputer Prog. Advanced	Prereq: 152-126		S
2	801-136	3	English Composition 1	Prereq: 831-103 OR 851-757	• Satisfactory college placement results (through multiple measures or placement test scores) or successful remediation is required prior to enrollment. See an advisor for details.	S
3	809-198	3	Psychology, Introduction to	Prereq: 838-105 OR 851-757	• Satisfactory college placement results (through multiple measures or placement test scores) or successful remediation is required prior to enrollment. See an advisor for details.	SU
3	801-197	3	Technical Reporting	Prereq: 801-136		SU

(*) Students must achieve a minimum of 2.0 ("C") or above for this major course to meet graduation requirements.

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Term	Course Number	Credits	Course Title	Requisites (prereq- before/ coreq-with)	Notes	R-D
4	*152-122	3	Computer Programming RPG/IV (ILE)	Prereq: 152-133; 152-126		F
4	*152-168	3	IBM and .NET Enterprise Programming	Prereq: 152-151		F
4	*152-093	3	IBM Advanced Java Programming	Prereq: 152-141; 152-145; 801-136; 804-134 OR 804-135 OR 804-115		F
4	*152-164	3	Mobile Device Programming	Prereq: 152-126		F
4	XXX-XXX	3	Elective Course	Take 3 credits at the associate degree level. Suggested electives listed on back.		F
5	*152-125	3	Computer Program, RPG/IV (ILE) Adv.	Prereq: 152-122		S
5	*152-131	3	Systems Design / Development	Prereq: 152-122		S
5	*152-167	3	Zend (PHP) Application Programming	Prereq: 152-141		S
5	*152-158	3	DB2/UDB Programming	Prereq: 152-126; 152-105		S
5	809-195 OR 809-143	3	Economics OR Microeconomics	Prereq: 838-105 OR 851-757	<ul style="list-style-type: none"> Satisfactory college placement results (through multiple measures or placement test scores) or successful remediation is required prior to enrollment. See an advisor for details. 	S
Minimum Program Total Credits Required: 63						

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IT-Software Developer covers the rapidly changing field of Information Technology with its multiple job opportunities; it may be completed in five 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.

Program Learning Outcomes

Graduates will be able to:

- 1 Design software systems.
- 2 Implement a team-based software development methodology.
- 3 Navigate in a software development environment.
- 4 Integrate data technologies.
- 5 Develop software applications.
- 6 Develop technical documentation.

Essential Career Competencies

Gateway's six essential career competencies are the general attitudes and skills promoted and assessed by all programs. All Gateway graduates will develop skills in:

- 1 Communication Competence
- 2 Critical Thinking and Problem Solving
- 3 Professionalism and Career Management
- 4 Teamwork and Collaboration
- 5 Cultural Competence
- 6 Technology Competence

Admission Requirements

- 1 Students must submit an application and pay \$30 fee.
- 2 Students must meet one of the following: minimum cumulative high school GPA of 2.6 (unweighted); earned at least 12 college credits with a minimum GPA of 2.0; or complete valid reading, writing, and math placement assessments.

Gateway Technical College reserves the right to modify curriculum requirements for students who interrupt enrollment for one year or take over seven years to complete. Tuition and material fees are determined by the board of the Wisconsin Technical College System. Consult My Gateway for exact fee amounts. The District reserves the right to modify, cancel, or relocate course offerings in response to factors such as low enrollment, resource availability, or other relevant considerations to ensure high-quality educational experiences. Students will be notified in writing and are encouraged to meet with their Academic Advisor to adjust their academic plan.

Graduation Requirements

- 1 Minimum 63 credits with a cumulative GPA of 2.0 or above.
- 2 *Minimum of 2.0 ("C") or above for these major courses.
- 3 Complete 890-155 Gateway to Success (G2S) in the first semester.

For a complete list of Graduation Requirements, check the Student Handbook or [Graduation Requirements](#).

Suggested Electives

152-081 Programming in Python	809-196 Sociology, Intro to
801-198 Speech	809-172 Diversity Studies, Intro to
809-112 Principles of Sustainability	801-196 Oral/Interpersonal Communication

Notes

- 1 IT-Software Developer is a laptop program. Students will need a Windows-Based computer (with a hard drive) for use in the program. Please note MAC computers are not compatible with some of the required software.

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