IT – Web Software Developer (10-152-4)
Associate of Applied Science
Effective 2024/2025

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.).

O = Online, F=Fall, S=Spring, SU=Summer

Term	Course #	Cr.	Course Title	Requisites (prereq- before/ coreq-with)	O
1	890-155	1	⍟ Gateway to Success (G2S)		F
1	*152-081	3	Programming in Python		F
1	*152-101	4	Web Programming		F
1	*152-184	3	🎓 Java Programming 1[3]	Coreq: 804-135 OR 804-115	F
1	804-135 **OR** 804-115	3 5	Quantitative Reasoning[1,3] **OR** College Technical Math 1 [1,3]	Prereq: 834-109 **OR** Prereq: 834-110	F
2	*152-097	3	🎓 Javascript	Prereq: 152-101 OR 152-182	S
2	*152-080	3	Databases		S
2	*152-174	3	Java Programming 2	Prereq: 152-184	S
2	*152-188	3	PHP Web Programming	Prereq: 152-101 OR 152-182; 152-184 OR 152-081	S
2	801-136	3	English Composition 1[1,3]	Prereq: 831-103 OR 851-757	S
3	*152-102	3	Advanced Web Programming	Prereq: 152-101 OR 152-182; 152-097	SU
3	*152-178	3	Develop ASP.NET Web Apps	Prereq: 152-101 OR 152-182; 152-097 OR 152-184 OR 152-081	SU
3	801-196 **OR** 801-198	3	Oral/Interpersonal Communication **OR** Speech[3]		SU
4	*152-001	3	Front-End Development w/ React		F
4	*152-104	3	Web Frameworks	Prereq: 152-080;152-102	F
4	*152-164	3	Mobile Device Programming	Prereq: 152-184	F
4	XXX-XXX	3	Elective Course	Take 3 credits at the associate degree level. Suggested electives listed on back.	F
5	*152-083	3	Web Developer Project	Prereq: 801-196 OR 801-198; 152-102 OR 152-150; 152-188; 801-136	S
5	*152-103	3	Advanced Programming in Python	Prereq: 152-081; 152-101 OR 152-182	S
5	809-198	3	Psychology, Introduction to[1,3]	Prereq: 838-105 OR 851-757	S
5	809-143 **OR** 809-195	3	Microeconomics[1,3] **OR** Economics[1,3]	Prereq: 838-105 OR 851-757	S

Minimum Program Total Credits Required: 62

Notes associated with courses (identified by a superscript number at the end of the course title) are located on the back of the sheet.

⍟ Mastery of this course will put students on a path to achieve successful degree completion, on-time graduation, and enrich the college experience. Students are required to take this course in their first semester of enrollment. Please see an advisor for details.

🎓 = Milestone Course. Faculty have identified this course as providing a strong foundation for success throughout the program.

(*) indicates students must achieve a minimum of 2.0 ("C") or above for these major courses to meet graduation requirements.

IT – Web Software Developer (10-152-4)

The *IT-Web Software Developer* program trains students in the development and maintenance of business and e-Commerce web sites using a variety of software, programming, and scripting languages. Topics will include web site project management, design, development, deployment, and basic maintenance of back-end databases and websites. Typical entry-level positions for this training opportunity include web developer, web programmer, and web designer.

Program Learning Outcomes

Graduates will be able to:
1. Plan web-based solutions.
2. Design web applications.
3. Build front-end of web-based software applications.
4. Build back-end of web-based software applications.
5. Integrate database technologies.
6. Develop technical documentation for web applications.
7. Test web applications.

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:

- Communication Competence
- Critical Thinking and Problem Solving
- Professionalism and Career Management
- Teamwork and Collaboration
- Cultural Competence
- 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.

Graduation Requirements

1. Minimum 62 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

152-140 Web Internship	138-118 International Bizsquad
145-119 Entrepreneurship	809-172 Diversity Studies
152-106 Swift Programming 1	152-107 Swift Programming 2

Notes

1. Satisfactory college placement results (through multiple measures or placement test scores) or successful remediation is required prior to enrollment. See an advisor for details.
2. Gateway has many articulation agreements with four-year colleges and universities. If you are planning on transferring to a four-year institution please review this information online at gtc.edu/transfer. If an institution is not listed, please contact them directly to see which courses transfer. You may also contact your advisor for more information.
3. A credit for prior learning assessment is available for this course. For more information, please contact cfpl@gtc.edu.
4. IT-Web 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.