



**Full-Time Pathway to Success**

School of Manufacturing, Engineering, and Information Technology

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

Associate of Applied Science

**Effective 2022/2023**

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 <sup>4</sup>	Coreq: 804-135 OR 804-115	F
	804-135	3	Quantitative Reasoning <sup>1,4</sup>	Prereq: 834-109	
1	<b>OR</b>	<b>OR</b>	<b>OR</b>		F
	804-115	5	College Technical Math 1 <sup>1,4</sup>	Prereq: 834-110	
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 <sup>1,4</sup>	Prereq: 831-103 OR 831-107	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		Oral/Interpersonal Communication		
3	<b>OR</b>	3	<b>OR</b>		SU
	801-198		Speech		
3	809-198	3	Psychology, Introduction to <sup>1,3,4</sup>	Prereq: 838-105 OR 831-107	SU
4	*152-103	3	Advanced Programming in Python	Prereq: 152-081; 152-101 OR 152-182	F
4	*152-104	3	Web Frameworks	Prereq: 152-080;152-102;152-103 OR 152-174	F
4	*152-164	3	Mobile Device Programming	Prereq: 152-184	F
	*152-001	3	Front-End Development w/ React		
4	<b>OR</b>	<b>OR</b>	<b>OR</b>		F
	*152-084	3	Front End Development w/ Angular	Prereq: 152-097	
5	*152-083	3	Web Developer Project	Prereq: 801-196 OR 801-198; 152-102 OR 152-150; 152-188	S
	809-143		Microeconomics <sup>1,3,4</sup>		
5	<b>OR</b>	3	<b>OR</b>	Prereq: 838-105 OR 831-107	S
	809-195		Economics <sup>1,3,4</sup>		
5	XXX-XXX	3	Elective Course	Take 3 credits at the associate degree level. Suggested electives listed on back.	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
- Professionalism and Career Management
- Cultural Competence
- Critical Thinking and Problem Solving
- Teamwork and Collaboration
- 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 an average 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	801-198 Speech
809-172 Diversity Studies	152-001 Front-End Development with React
152-084 Front-End Development with Angular	

### 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](http://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. Transfer credits in Social Science may substitute for this course. See an advisor for details.
4. A credit for prior learning assessment is available for this course. For more information, please contact [cfpl@gtc.edu](mailto:cfpl@gtc.edu).
5. 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.

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. 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.