



Part-Time Pathway to Success

School of Manufacturing, Engineering, and Information Technology

IT – Data Analytics Specialist (10-156-3)

Associate of Applied Science

Effective 2021/2022

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.

I-E = iMET Center/evenings, F=Fall, S=Spring, SU=Summer

Term	Course #	Cr.	Course Title	Requisites (prereq- before/ coreq-with)	I-E
1	890-155	1	📍 Gateway to Success (G2S)		F
1	*150-182	3	🎓 IoT: Connecting Devices		F
1	*150-194	3	Network Security		F
1	804-135	3	Quantitative Reasoning ¹	Prereq: 834-109	F+
2	804-189	3	Statistics	Prereq: 804-135	S+
2	*156-018	3	Fundamentals of IT		S
2	*152-081	3	🎓 Programming in Python		S
3	*156-019	3	Intro to MIS	Coreq: 801-136	SU
3	801-136	3	English Composition 1 ^{1,4}	Prereq: 831-103 OR 831-107	SU+
3	*152-080	3	🎓 Databases	Prereq: 152-081 OR 152-184	SU
4	*156-100	3	Data Analytics 1	Prereq: 152-081; 804-135; Coreq: 804-189	F
4	*150-115	3	IoT: Securing Devices	Prereq: 150-182; 804-135	F
4	809-195	3	Economics ^{1,3}		
	OR	3	OR	Prereq: 838-105 OR 831-107	F+
	809-143		Microeconomics ^{1,3}		
5	801-197	3	Technical Reporting ¹	Prereq: 801-136	S+
5	809-198	3	Psychology, Intro to ^{1,3,4}	Prereq: 838-105 OR 831-107	S+
5	*156-101	3	Data Analytics 2	Prereq: 156-100; 152-080	S
6	*156-120	3	Programming in R	Prereq: 156-100; 804-189	SU
6	801-196	3	Oral/Interpersonal Communication		SU+
6	XXX-XXX	3	Elective Course	Take 3 credits at the associate degree level. Suggested electives listed on back.	SU
7	*156-125	3	Business Intelligence and Visualization	Prereq: 156-101; 156-120	F
7	*156-130	3	Data Analytics Capstone	Prereq: 156-101; 156-120; 801-197; Coreq: 156-125	F

Minimum Program Total Credits Required: 61

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.

(+) indicates students may take these courses at any one of the three main campuses; Kenosha, Racine, or Elkhorn.

IT – Data Analytics Specialist (10-156-3)

The *IT - Data Analytics Specialist* program trains students to identify, utilize, and interpret data from various sources, and to visualize that data to resolve business questions that impact data-driven decisions. Topics will include using current technologies to work with large data sets, securing data from various sources, database technologies, computer programming in Python and R, statistical analysis of data, creating visualizations and business intelligence, and completing real-world projects. Typical entry-level positions for this training opportunity include Operations Research Analyst, Computer Systems Analyst, Database Specialist, Data Analyst, and Junior Data Scientist.

Program Learning Outcomes

Graduates will be able to:

1. Collect large data sets from multiple sources.
2. Organize data using software tools.
3. Create visualizations of data to drive decision making.
4. Communicate technical information to stakeholders.

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

- Minimum 61 credits with an average of 2.0 or above.
- *Minimum of 2.0 ("C") or above for these major courses.
- 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

152-182 Web Programming 1	152-097 JavaScript
152-184 Java Programming 1	150-106 Intrusion Detection Systems
138-118 International Bizsquad	

Notes

1. A satisfactory placement test score (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. 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.
5. IT-Data Analytics Specialist 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 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 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.