	Career Cluster ►	Career Pathway ►	IT – SOFTWARE DEVELOPER
GATEWAY TECHNICAL COLLEGE **Effective 2014/2015**	*Information Technology*	Programming and Software Development	**(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
		107-193	*	IT Essentials		3	2-2
		150-105	*	Intro to Networking / Web Concepts		3	2-2
		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
		801-196 801-198	**OR**	Oral/Interpersonal Communication Speech	Prereq: 838-105 (See Note 1)	3	3-0
Semester 2		152-105	*	System i Concepts	Prereq: 107-011	2	1-2
		152-126	*	Intro to Prog. & Database Concepts		4	3-2
		801-197		Technical Reporting	Prereq: 801-136	3	3-0
		809-195		Economics	Prereq: 838-105 (See Note 1)	3	3-0
		809-196		Sociology, Introduction to	Prereq: 838-105 (See Note 1)	3	3-0
Semester 3		152-122	*	Computer Programming RPG/IV (ILE)	Prereq: 152-105; 152-126	3	2-2
		152-131	*	Systems Design / Development	Coreq: 152-122	3	2-2
		152-141	*	Java Programming – IBM iSeries	Prereq: 152-126; 152-105	3	2-2
		152-151	*	Microcomputer Prog. Advanced	Prereq: 152-126	3	2-2
		809-198		Psychology, Introduction to	Prereq: 838-105 (See Note 1)	3	3-0
Semester 4		152-125	*	Computer Program, RPG/IV (ILE) Adv.	Prereq: 152-122	3	2-2
		152-133	*	System I Control Language	Prereq: 152-105	2	1-2
		152-145	*	Internet Programming	Prereq: 152-126	3	2-2
		152-158	*	DB/UDB Programming	Prereq: 152-126; 152-105	3	2-2
		107-177	*	IT Project Management	Prereq: 154-113 **OR** 152-131; Coreq: 801-197	4	3-2
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) 152-149 IBM i Systems Administration (3 Cr)					

Minimum Program Total Credits Required   *69*

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

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.

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.

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

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 69 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.

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).

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 the Master Class Schedule 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/ACCESS EDUCATOR / EMPLOYER
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 _____.