

# WEB PROGRAMMING - MINOR

College of Arts and Sciences  
Department of Computer Science  
www.kent.edu/cs

## About This Program

The Web Programming minor provides students with a foundation in web development. The minor is for students in any field — from the natural sciences to social sciences and humanities — allowing them to work with substantial computing and Internet-oriented cyber systems.

The Web Programming minor allows students to acquire skills and theoretical foundations needed to create web-related quality software and gain experience with full-stack development.

Please see the “Web Design & Development” minor offered by the School of Emerging Media & Technology for a distinct program minor with greater emphasis on design and front-end development.

## Contact Information

- **Feodor F. Dragan** and **Angela Guercio** | ugradinfo@cs.kent.edu | 330-672-9120
- Speak with an Advisor
  - Kent Campus
  - Stark Campus

## Program Delivery

- **Delivery:**
  - In person
- **Location:**
  - Kent Campus
  - Stark Campus

## Admission Requirements

Admission to a minor is open to students declared in a bachelor's degree, the A.A.B. or A.A.S. degree or the A.T.S. degree (not Individualized Program major). Students declared only in the A.A. or A.S. degree or the A.T.S. degree in Individualized Program may not declare a minor. Students may not pursue a minor and a major in the same discipline.

## Program Requirements

### Minor Requirements

Code	Title	Credit Hours
<b>Minor Prerequisites</b>		
MATH 11010	ALGEBRA FOR CALCULUS (KMCR)	
<b>Minor Requirements</b>		
CS 13011 & CS 13012	COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING	4
or CS 13001	COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING	

CS 23001	COMPUTER SCIENCE II: DATA STRUCTURES AND ABSTRACTION	4
CS 23022	DISCRETE STRUCTURES FOR COMPUTER SCIENCE	3
CS 33007	INTRODUCTION TO DATABASE SYSTEM DESIGN	3
CS 44105	WEB PROGRAMMING I	3
CS 44106	WEB PROGRAMMING II	3
<b>Minimum Total Credit Hours:</b>		<b>20</b>

## Graduation Requirements

Minimum Minor GPA	Minimum Overall GPA
2.000	2.000

- Minimum 6 credit hours in the minor must be upper-division coursework (30000 and 40000 level).
- Minimum 6 credit hours in the minor must be outside of the course requirements for any major or other minor the student is pursuing.
- Minimum 50 percent of the total credit hours for the minor must be taken at Kent State (in residence).

## Program Learning Outcomes

Graduates of this program will be able to:

1. Understand the essential facts, concepts, principles and theories related to computer science and web programming with data bases.
2. Apply computer science concepts to solve computer and web-related problems.
3. Design and create web-related quality software by gaining experience with full stack development.
4. Make succinct oral presentations and written expositions about technical problems and their solutions.
5. Work effectively as a member of a web-software development team.