DIGITAL SCIENCES - MINOR

Description
The Digital Sciences minor is designed to complement a wide range of majors, including computer science, fashion, computer information systems, visual communication design, journalism and mass communication, communication studies.

The minor includes curriculum that focus on developing a content-rich website and on making a web page or software application easier to use. The minor also provides options for students to explore either societal or ethical issues involving technology; explore either design thinking or programming; and explore either security, project management, information management or enterprise architecture.

Fully Offered At:
- Kent 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. 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.

Minor Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS10010</td>
<td>SOCIETY, CULTURE AND THE DIGITAL SCIENCES</td>
<td>3</td>
</tr>
<tr>
<td>or DS10410</td>
<td>INFORMATION ETHICS AND SOCIAL RESPONSIBILITY</td>
<td></td>
</tr>
<tr>
<td>DS10310</td>
<td>MY STORY ON THE WEB</td>
<td>3</td>
</tr>
</tbody>
</table>

Programming Elective, choose from the following:
- CS 13011 & CS 13012: COMPUTER SCIENCE IA: PROCEDURAL PROGRAMMING and COMPUTER SCIENCE IB: OBJECT ORIENTED PROGRAMMING

or CS 13001: COMPUTER SCIENCE I: PROGRAMMING AND PROBLEM SOLVING

- DSCI 15310: COMPUTATIONAL THINKING AND PROGRAMMING

- MIS 34070: PROGRAMMING THEORY AND APPLICATIONS

Design Elective, choose from the following:
- DSCI 13210: DESIGN PROCESSES AND PRINCIPLES
- FDM 10053 & FDM 10054: INTRODUCTION TO FASHION TECHNOLOGY and INTRODUCTION TO FASHION TECHNOLOGY LABORATORY
- VCD 13000: DESIGN: PRINCIPLES, PROCESSES AND PRACTICE

Digital Sciences Elective, choose from the following:
- DSCI 31010: ENTERPRISE ARCHITECTURE
- DSCI 33310: HUMAN-COMPUTER INTERACTION
- DSCI 34410: DIGITAL INFORMATION MANAGEMENT AND PROCESSING
- DSCI 41510: PROJECT MANAGEMENT AND TEAM DYNAMICS (WIC)
- DSCI 41610: DIGITAL SYSTEMS SECURITY

Digital Sciences or Related Area Elective, choose from the following:
- COMM 35600: COMMUNICATION IN SMALL GROUPS AND TEAMS
- COMM 41000: SPORTS COMMUNICATION
- COMM 43000: COMMUNICATION TECHNOLOGY AND HUMAN INTERACTION
- COMM 45006: MEDIA USE AND EFFECTS
- COMM 45957: LANGUAGE, MEANING AND COGNITION
- CS 33007: INTRODUCTION TO DATABASE SYSTEM DESIGN
- CS 33101: STRUCTURE OF PROGRAMMING LANGUAGES
- CS 33211: OPERATING SYSTEMS
- CS 33223: UNIX TOOLS
- CS 33901: SOFTWARE ENGINEERING
- CS 35101: COMPUTER ARCHITECTURE
- CS 43202: SYSTEMS ADMINISTRATION
- CS 43203: SYSTEMS PROGRAMMING
- CS 46101: DESIGN AND ANALYSIS OF ALGORITHMS
- DSCI 31010: ENTERPRISE ARCHITECTURE
- DSCI 39995: SPECIAL TOPICS IN DIGITAL SCIENCES
- DSCI 49910: EMERGING TECHNOLOGIES IN DIGITAL SCIENCES
- DSCI 49995: SPECIAL TOPICS IN DIGITAL SCIENCES
- ENG 30062: PRINCIPLES OF TECHNICAL WRITING
- ENG 30063: PROFESSIONAL WRITING
- ETEC 47427: TECHNOLOGY AND LEARNING
- GEOG 49070: GEOGRAPHIC INFORMATION SCIENCE
- GEOG 49076: SPATIAL PROGRAMMING
- GEOG 49080: ADVANCED GEOGRAPHIC INFORMATION SCIENCE
- GEOG 49085: WEB AND MOBILE GEOGRAPHIC INFORMATION SCIENCE
- GEOG 49162: CARTOGRAPHY AND GEOVISUALIZATION
- GEOG 49163: CARTOGRAPHY AND GEOVISUALIZATION LABORATORY
- IT 36302: ADVANCED C# PROGRAMMING
- IT 36308: ERGONOMICS IN COMPUTER SYSTEMS
- IT 36310: MULTIMEDIA DEVELOPMENT TOOLS
- IT 36318: SURVEY OF INFORMATION SECURITY, INTERNET FRAUD AND COMPUTER FORENSICS (WIC)
- IT 36320: COMPUTER FORENSICS
- IT 36321: NETWORK FORENSICS
- IT 36330: LOCAL AREA NETWORK SECURITY FUNDAMENTALS
- IT 42000: SOCIAL MEDIA SECURITY
- MIS 34036: ENTERPRISE SYSTEMS AND BUSINESS PROCESSES
Digital Sciences - Minor

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 34054</td>
<td>USING INFORMATION SYSTEMS FOR SOLVING BUSINESS PROBLEMS</td>
</tr>
<tr>
<td>MIS 34060</td>
<td>OPERATIONS MANAGEMENT</td>
</tr>
<tr>
<td>MIS 34068</td>
<td>SYSTEMS ANALYSIS AND DESIGN</td>
</tr>
<tr>
<td>MIS 34070</td>
<td>PROGRAMMING THEORY AND APPLICATIONS</td>
</tr>
<tr>
<td>MIS 34158</td>
<td>MANAGERIAL AND TECHNOLOGICAL ASPECTS OF HEALTHCARE SYSTEMS MANAGEMENT</td>
</tr>
<tr>
<td>MIS 34165</td>
<td>DYNAMICS OF LEADERSHIP</td>
</tr>
<tr>
<td>MIS 44042</td>
<td>NETWORK THEORY AND APPLICATIONS</td>
</tr>
<tr>
<td>MIS 44043</td>
<td>DATABASE MANAGEMENT SYSTEMS</td>
</tr>
<tr>
<td>MIS 44045</td>
<td>INFORMATION SYSTEMS MANAGEMENT</td>
</tr>
<tr>
<td>MIS 44049</td>
<td>NETWORK MANAGEMENT AND CYBERSECURITY</td>
</tr>
<tr>
<td>MIS 44062</td>
<td>SUPPLY CHAIN MANAGEMENT</td>
</tr>
<tr>
<td>PSYC 40445</td>
<td>COGNITIVE PSYCHOLOGY</td>
</tr>
<tr>
<td>TECH 33010</td>
<td>COMPUTER HARDWARE</td>
</tr>
<tr>
<td>TECH 36302</td>
<td>NETWORKING HARDWARE II</td>
</tr>
<tr>
<td>TECH 43050</td>
<td>INVENTIVE PROBLEM SOLVING</td>
</tr>
<tr>
<td>TECH 43222</td>
<td>COMPUTER HARDWARE ENGINEERING AND ARCHITECTURE</td>
</tr>
<tr>
<td>TECH 46312</td>
<td>WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS</td>
</tr>
<tr>
<td>TECH 46330</td>
<td>VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY</td>
</tr>
<tr>
<td>TECH 46350</td>
<td>NETWORK MANAGEMENT AND DESIGN TECHNOLOGY</td>
</tr>
<tr>
<td>VCD 34004</td>
<td>VISUAL ETHICS</td>
</tr>
<tr>
<td>VCD 37000</td>
<td>VISUAL DESIGN FOR MEDIA: ADVANCED</td>
</tr>
</tbody>
</table>

Elective approved by an advisor

Minimum Total Credit Hours: 18

1 Requests for consideration of another elective should be submitted to the student's advisor in the School of Digital Sciences.

Graduation Requirements

Minimum Minor GPA 2.00

- 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).