

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses and milestones designated as critical (in boldface and shaded areas) must be completed in the semester listed to ensure a timely graduation.

| Course Subject and Title  | Credit Hours | Upper Div. | Min. Grade | Major GPA | Important Notes  |
|---|--------------|------------|------------|-----------|--|
| <b>Semester One: [16 Credit Hours]</b>                          |              |            |            |           |  |
| <b>DSCI 10010 Society, Culture and the Digital Sciences</b>     | <b>3</b>     |            |            | ■         | <b>Offered in fall only</b>  |
| US 10097 Destination Kent State: First Year Experience          | 1            |            |            |           | Not required for transfer students with 25 credits                           |
| Kent Core Requirement   | 3            |            |            |           | See Kent Core Summary on page 2  |
| Kent Core Requirement   | 3            |            |            |           | See Kent Core Summary on page 2  |
| Approved Elective in Digital Sciences                           | 3            |            |            | ■         | Consult DSCI advisor   |
| Approved Elective in Digital Sciences or Related Area           | 3            |            |            | ■         | Recommended: TECH 10001  |
| <b>Semester Two: [15 Credit Hours]</b>                          |              |            |            |           |  |
| <b>DSCI 10410 Information Ethics and Social Responsibility</b>  | <b>3</b>     |            |            | ■         | <b>Offered in spring only</b>  |
| <b>DSCI 13210 Design Processes and Principles</b>               | <b>3</b>     |            |            | ■         |  |
| <b>MIS 24053 Introduction to Computer Applications</b>          | <b>3</b>     |            |            | ■         |  |
| Kent Core Requirement   | 3            |            |            |           | See Kent Core Summary on page 2  |
| Kent Core Requirement   | 3            |            |            |           | See Kent Core Summary on page 2  |
| <b>Semester Three: [15 Credit Hours]</b>                        |              |            |            |           |  |
| <b>MIS 24065 Web Programming</b>                                | <b>3</b>     |            |            | ■         |  |
| Kent Core Requirement   | 3            |            |            |           | See Kent Core Summary on page 2  |
| Kent Core Requirement   | 3            |            |            |           | See Kent Core Summary on page 2  |
| Approved Elective in Digital Sciences                           | 3            |            |            | ■         | Consult DSCI advisor   |
| Approved Elective in Digital Sciences or Related Area           | 3            |            |            | ■         |  |
| <b>Semester Four: [15 Credit Hours]</b>                         |              |            |            |           |  |
| <b>DSCI 15310 Computational Thinking and Programming</b>        | <b>3</b>     |            |            | ■         |  |
| <b>DSCI 34410 Digital Information Management and Processing</b> | <b>3</b>     | ■          |            | ■         | <b>Offered in spring only</b>  |
| Kent Core Requirement   | 3            |            |            |           | See Kent Core Summary on page 2  |
| Kent Core Requirement   | 3            |            |            |           |  |
| Approved Elective in Digital Sciences                           | 3            |            |            | ■         | Consult DSCI advisor   |
| <b>Semester Five: [15 Credit Hours]</b>                         |              |            |            |           |  |
| <b>DSCI 41610 Digital Systems Security</b>                      | <b>3</b>     | ■          |            | ■         | <b>Offered in fall only</b>  |
| <b>MIS 44043 Database Management Systems</b>                    | <b>3</b>     | ■          |            | ■         |  |
| Kent Core Requirement   | 3            |            |            |           | See Kent Core Summary on page 2  |
| Kent Core Requirement   | 3            |            |            |           |  |
| Approved Elective in Digital Sciences or Related Area           | 3            |            |            | ■         | Consult DSCI advisor   |
| <b>Semester Six: [15 Credit Hours]</b>                          |              |            |            |           |  |
| <b>DSCI 41510 Global Project Management and Team Dynamics</b>   | <b>3</b>     | ■          | C          | ■         | <b>Fulfills writing-intensive course requirement; offered in spring only</b> |
| <b>TECH 46411 Requirements Engineering and Analysis</b>         | <b>3</b>     | ■          |            | ■         |  |
| Kent Core Requirement   | 3            |            |            |           | See Kent Core Summary on page 2  |
| Kent Core Requirement   | 3            |            |            |           |  |
| Approved Elective in Digital Sciences or Related Area           | 3            | ■          |            | ■         | Consult DSCI advisor   |
| <b>Semester Seven: [15 Credit Hours]</b>                        |              |            |            |           |  |
| <b>DSCI 40910 Capstone in Digital Sciences</b>                  | <b>3</b>     | ■          |            | ■         | <b>Offered in fall only</b>  |
| Approved Elective in Digital Sciences or Related Area           | 6            |            |            | ■         | Consult DSCI advisor   |
| General Electives (upper division)                              | 6            | ■          |            |           |  |



**Critical requirements are boldface in shaded area**

| Course Subject and Title   | Credit Hours | Upper Div. | Min. Grade | Major GPA | Important Notes   |
|--|--------------|------------|------------|-----------|---|
| <b>Semester Eight: [15 Credit Hours]</b>                               |              |            |            |           |   |
| Approved Elective in Digital Sciences or Related Area (upper division) | 3            | ■          |            | ■         | Consult DSCI advisor  |
| General Electives (upper division)                                     | 12           | ■          |            |           | Number of credits required depends on meeting minimum 121 credit hours and 39 upper-division credit hours |

**Graduation Requirements Summary**

| Minimum Total Hours | Minimum Upper-Division Hours | Minimum Kent Core Hours | Global / Domestic Diversity Course | Writing-Intensive | Experiential Learning  | Minimum Major GPA | Minimum Overall GPA |
|---------------------|------------------------------|-------------------------|------------------------------------|-------------------|--|-------------------|---------------------|
| 121                 | 39                           | 36                      | Kent Core or general electives     | DSCI 41510        | Visit <a href="http://www.kent.edu/catalog/elr">www.kent.edu/catalog/elr</a> | 2.000             | 2.000               |

**Kent Core Summary**

| Kent Core Categories   | Important Notes                    | Remaining Credit Hours |
|--|------------------------------------|------------------------|
| <b>Composition (6-8 credit hours)</b><br><i>ENG 11002, 11011, 21011; HONR 10197, 10297</i>   | Enrollment based on placement test | 6-8                    |
| <b>Mathematics and Critical Reasoning (3-5 credit hours)</b>   | Enrollment based on placement test | 3-5                    |
| <b>Humanities and Fine Arts (9 credit hours)</b><br><i>Minimum one course from humanities in Arts and Sciences and minimum one course from fine arts</i> | May fulfill diversity requirement  | 9                      |
| <b>Social Sciences (6 credit hours)</b><br><i>Must be selected from two curricular areas</i>   | May fulfill diversity requirement  | 6                      |
| <b>Basic Sciences (6-7 credit hours)</b><br><i>Must include one laboratory</i>   |                                    | 6-7                    |
| <b>Additional (6 credit hours)</b>   | May fulfill diversity requirement  | 6                      |

**Approved electives in Digital Sciences or related area (9 credit hours):**

|  |     |   |   |
|--|-----|---|---|
| COMM 21008 Social Media Strategies   | 3   | ITEC 47413 Digital Video in Education   | 3 |
| COMM 26001 Public Communication in Society                                       | 3   | ITEC 47427 Technology and Learning  | 3 |
| COMM 35600 Communication in Small Groups and Teams                               | 3   | ITEC 47430 Computer Applications in Education                                   | 3 |
| COMM 43000 Communication Technology and Human Interaction                        | 3   | JMC 21001 Principles of Advertising   | 3 |
| COMM 45006 Media Use and Effects   | 3   | JMC 21008 Social Media Strategies   | 3 |
| COMM 45957 Language, Meaning and Cognition                                       | 3   | JMC 28001 Principles of Public Relations  | 3 |
| COMT 36308 Ergonomics in Computer Systems  | 3   | MIS 24163 Principles of Management*   | 3 |
| COMT 36318 Survey of Information Security, Internet Fraud and Computer Forensics | 3   | MIS 34036 Enterprise Systems  | 3 |
| COMT 36320 Computer Forensics  | 3   | MIS 34054 Using Information Systems for Solving Business Problems               | 3 |
| COMT 36321 Network Forensics   | 3   | MIS 34068 System Analysis and Design  | 3 |
| COMT 36330 Local Area Network Security Fundamentals                              | 3   | MIS 34070 Programming Theory and Applications                                   | 3 |
| CS 10001 Computer Literacy   | 3   | MIS 34161 Managerial and Technological Aspects of Healthcare Systems Management | 3 |
| CS 10051 Introduction to Computer Science <sup>K</sup>                           | 4   | MIS 44042 Network Theory and Applications                                       | 3 |
| CS 13001 Computer Science I-Programming and Problem Solving                      | 4   | MIS 44043 Database Management Systems   | 3 |
| CS 13401 User Level Computer Security  | 3   | MIS 44045 Information Systems Management  | 3 |
| CS 23001 Computer Science II-Data Structures and Abstraction                     | 4   | MIS 44062 Supply Chain Management   | 3 |
| CS 23022 Discrete Structures for Computer Science                                | 3   | PSYC 11762 General Psychology <sup>K</sup>                                      | 3 |
| CS 33007 Introduction to Database System Design                                  | 3   | PSYC 30445 Cognitive Psychology   | 3 |
| CS 33223 Unix Tools  | 3   | TECH 10001 Information Technology   | 3 |
| CS 33901 Software Engineering  | 3   | TECH 26301 Networking Hardware I  | 3 |
| CS 35101 Computer Architecture   | 3   | TECH 36302 Networking Hardware II   | 3 |
| CS 43202 Systems Administration  | 3   | TECH 43050 Inventive Problem Solving  | 3 |
| DSCI 10310 My Story on the Web   | 3   | TECH 46312 Wireless Network and Telecommunication Systems                       | 3 |
| DSCI 15310 Computational Thinking and Programming                                | 3   | TECH 46330 Visual Basic Programming in Engineering Technology                   | 3 |
| DSCI 23410 Cognition in Technology   | 3   | TECH 46350 Network Management and Design Technology                             | 3 |
| DSCI 26010 Telecommunication Infrastructure                                      | 3   | VCD 14001 Visual Design Literacy  | 3 |
| DSCI 31010 Enterprise Architecture   | 3   | VCD 14002 Communicating with Color  | 3 |
| DSCI 33310 Human-Computer Interaction  | 3   | VCD 34004 Visual Ethics   | 3 |
| DSCI 49992 Internship in Digital Sciences <sup>E</sup>                           | 1-6 | VCD 37000 Visual Design for Media: Advanced                                     | 3 |
| DSCI 49996 Individual Investigation in Digital Sciences                          | 1-3 |   |   |
| GEOG 49070 Geographic Information Science  | 3   |   |   |

<sup>K</sup> Fulfills Kent Core Requirement

<sup>E</sup> Fulfills Experiential Learning Requirement

\*Equivalent to BMRT 11009 Introduction to Management Technology

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**Kent Core**

Students must complete a minimum 36 credit hours of the Kent Core. Certain courses required in programs and in student's major field may also fulfill the Kent Core. Honors equivalents shall satisfy the Kent Core. None of the courses on the Kent Core list may be taken with a pass/fail grade. Visit [www.kent.edu/catalog/kent-core](http://www.kent.edu/catalog/kent-core) for course list.

**Diversity Course Requirement**

Students must complete a two-course diversity requirement, consisting of one with a domestic (U.S.) focus and one with a global focus. One course must come from the Kent Core. The second course may be taken as a second Kent Core, within a major or minor, or as a general elective; or, with dean's approval, by completing one semester of study in another country. Visit [www.kent.edu/catalog/diversity](http://www.kent.edu/catalog/diversity) for course list.

**Writing-Intensive Course Requirement**

Students must complete a one-course writing-intensive requirement in their major and earn minimum C (2.000) grade. Visit [www.kent.edu/catalog/wic](http://www.kent.edu/catalog/wic) for course list.

**Experiential Learning Requirement (ELR)**

To provide students with direct engagement in learning experiences that promote academic relevance, meaning and an understanding of real-world issues, students must complete this requirement at Kent State, either as a for-credit course or as a non-credit, non-course experience approved by the appropriate faculty member. Visit [www.kent.edu/catalog/elr](http://www.kent.edu/catalog/elr) for course list.

**Upper-Division Requirement**

Students must complete a minimum 39 upper-division (numbered 30000 to 49999) credit hours of coursework. Programs in the College of Arts and Sciences require a minimum of 42 hours of upper-division coursework.

