Roadmap: Digital Sciences - Bachelor of Science



DS-BS-DS

School of Digital Science Catalog year: 2014-2015

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

| completed in the semester listed to ensure a timely graduation. | | | | | | | |
|---|---|-------|------------|------------|-----------|------|------------|
| Critica | Course Subject and Title | Hours | Upper Div. | Min. Grade | Major GPA | Туре | Term Taken |
| emest | er One [16 Credits] | | | I. | I | | |
| ! | DSCI 10010 Society, Culture and the Digital Sciences 1 | 3 | | | - | | |
| | US 10097 Destination Kent State: First Year Experience 2 | 1 | | | | | |
| | Kent Core Requirement | 3 | | | | | |
| | Kent Core Requirement | 3 | | | | | |
| | Approved Electives in Digital Sciences 6 | 3 | | | | | |
| | Approved Electives in Digital Sciences or Related Area ⁶ | 3 | | | | | |
| emest | er Two [15 Credits] | | | | | | |
| ! | DSCI 10410 Information Ethics and Social Responsibility ³ | 3 | | | | | |
| ! | DSCI 13210 Design Processes and Principles 3 | 3 | | | | | |
| ! | MIS 24053 Introduction to Computer Applications | 3 | | | | | |
| | Kent Core Requirement | 3 | | | | | |
| | Kent Core Requirement | 3 | | | | | |
| emest | er Three [15 Credits] | | | | | | |
| ! | MIS 24065 Web Programming | 3 | | | | | |
| | Kent Core Requirement | 3 | | | | | |
| | Kent Core Requirement | 3 | | | | | |
| | Approved Electives in Digital Sciences ⁶ | 3 | | | | | |
| | Approved Electives in Digital Sciences or Related Area ⁶ | 3 | | | | | |
| emest | er Four [15 Credits] | | | | | | |
| ! | DSCI 15310 Computational Thinking and Programming | 3 | | | | | |
| ! | DSCI 34410 Digital Information Management and Processing ³ | 3 | | | | | |
| | Kent Core Requirement | 3 | | | | | |
| | Kent Core Requirement | 3 | | | | | |
| | Approved Electives in Digital Sciences ⁶ | 3 | | | | | |
| emest | er Five [15 Credits] | | | | | | |
| ! | DSCI 41610 Digital Systems Security 1 | 3 | | | | | |
| ! | MIS 44043 Database Management Systems | 3 | | | | | |
| | Kent Core Requirement | 3 | | | | | |
| | Kent Core Requirement | 3 | | | | | |
| | Approved Electives in Digital Sciences or Related Area ⁶ | 3 | | | | | |
| emest | er Six [15 Credits] | | | | | | |
| ! | DSCI 41510 Project Management and Team Dynamics 3,5 | 3 | | С | | WIC | |
| ! | TECH 46411 Requirements Engineering and Analysis | 3 | | | | | |
| | Kent Core Requirement | 3 | | | | | |
| | Kent Core Requirement | 3 | | | | | |
| | Approved Electives in Digital Sciences or Related Area ⁶ | 3 | | | - | | |
| emest | er Seven [15 Credits] | | <u> </u> | | | | |
| ! | DSCI 40910 Capstone in Digital Sciences 1 | 3 | | | | ELR | |
| | Approved Electives in Digital Sciences or Related Area ⁶ | 6 | _ | | _ | | |
| | General Electives ² | 6 | | | | | |
| emest | er Eight [14 Credits] | | | | | | |
| | Approved Electives in Digital Sciences or Related Area ⁶ | 3 | | | | | |
| | General Electives ² | 11 | | | _ | | |
| | | | 1 | 1 | 1 | | L |

Graduation Requirements Summary

| Minimum Total Hours | Minimum Upper-Division Hours | Minimum Kent Core Hours | Minimum | | |
|---------------------|------------------------------|---------------------------|-----------|-------------|--|
| Willing Total Hours | | Millimani Kent Core Hours | Major GPA | Overall GPA | |
| 120 | 39 | 36 | 2.000 | 2.000 | |

- 1. Offered in fall only
- 2. US 10097 is not required of transfer students with 25 credits or students age 21+ at time of admission.
- 3. Offered in spring only
- 4. Total credit hours depend on meeting minimum 120 credit hours and minimum 39 upper-division hours.
- 5. Minimum C (2.000) grade required in DSCI 41510 to fulfill the writing-intensive requirement.





School of Digital Science Catalog year: 2014-2015

6. Approved Electives in Digital Sciences or Related Area (a total of 30 credit hours are required with a of minimum 9 credit hours of DSCI courses)

| COMM 26001 Public Communication in Society (3) COMM 35600 Communication in Small Groups and Teams (3) COMM 41000 Sports Communication (3) COMM 43000 Communication Technology and Human Interaction (3) COMM 43000 Communication Technology and Human Interaction (3) COMM 43000 Communication Technology and Human Interaction (3) COMM 45006 Media Use and Effects (3) COMM 45957 Language, Meaning and Cognition (3) COMM 45957 Language, Meaning and Cognition (3) COMT 36308 Ergonomics in Computer Systems (3) COMT 36310 Multimedia Development Tools (3) COMT 36318 Survey of Information Security, Internet Fraud and Computer Forensics (3) COMT 36320 Computer Forensics (3) COMT 36320 Computer Forensics (3) COMT 36321 Network Forensics (3) COMT 36330 Local Area Network Security Fundamentals (3) CS 13001 Computer Science I-Programming and Problem Solving (4) CS 13001 Computer Science I-Programming and Problem Solving (4) CS 23022 Discrete Structures for Computer Science (3) CS 33007 Introduction to Database System Design (3) CS 33001 Computer Reining (3) CS 43202 Systems Administration (3) TECH 47427 Technology and Learning (3) ITEC 47413 Digital Video in Education (3) ITEC 47413 Computer Applications in Education (3) JMC 21001 Principles of Advertising (3) JMC 21001 Principles of Advertising (3) MIS 24163 Principles of Advertising (3) MIS 34036 Enterprise Systems (3) MIS 340 | Choose from the following pre-approved electives or consult with | • |
|--|--|---|
| COMM 35600 Communication in Small Groups and Teams (3) COMM 41000 Sports Communication (3) COMM 43000 Communication Technology and Human Interaction (3) COMM 43000 Communication Technology and Human Interaction (3) COMM 45006 Media Use and Effects (3) COMM 45957 Language, Meaning and Cognition (3) COMM 45957 Language, Meaning and Cognition (3) COMT 36308 Ergonomics in Computer Systems (3) COMT 36310 Multimedia Development Tools (3) COMT 36318 Survey of Information Security, Internet Fraud and Computer Forensics (3) COMT 36320 Computer Forensics (3) COMT 36320 Computer Forensics (3) COMT 36320 Local Area Network Security Fundamentals (3) COMT 36330 Local Area Network Security Fundamentals (3) CS 13001 Computer Science II-Data Structures and Abstraction (4) CS 23001 Computer Science II-Data Structures and Abstraction (4) CS 23002 Discrete Structures for Computer Science (3) CS 33001 Introduction to Database System Design (3) CS 33001 Computer Forensic (3) CS 3301 Computer Forensic Support Science (4) CS 33001 Computer Science II-Data Structures and Abstraction (4) CS 33001 Computer Science II-Data Structures and Abstraction (4) CS 23002 Discrete Structures for Computer Science (3) CS 33001 Introduction to Database System Design (3) CS 33001 Computer Science II-Data Structures and Abstraction (4) CS 33001 Computer Science II-Data Structures and Abstraction (4) CS 33001 Computer Science II-Data Structures and Abstraction (4) CS 33001 Computer Science II-Data Structures and Abstraction (4) CS 33001 Computer Science II-Data Structures and Abstraction (5) CS 33001 Introduction to Database System Design (3) CS 33001 Introduction to Database System Design (3) CS 33001 Introduction to Database System Design (3) TECH 16001 Information Technology (3) CS 33001 Computer Architecture (3) TECH 26001 Networking Hardware II (3) CS 43202 Systems Administration (3) TECH 43050 Inventive Problem Solving (3) | COMM 21008 Social Media Strategies (3) | GEOG 49070 Geographic Information Science (4) |
| COMM 41000 Sports Communication (3) COMM 43000 Communication Technology and Human Interaction (3) COMM 45006 Media Use and Effects (3) COMM 45957 Language, Meaning and Cognition (3) COMM 45957 Language, Meaning and Cognition (3) COMM 36308 Ergonomics in Computer Systems (3) COMT 36308 Ergonomics in Computer Systems (3) COMT 36310 Multimedia Development Tools (3) COMT 36318 Survey of Information Security, Internet Fraud and Computer Forensics (3) COMT 36321 Network Forensics (3) COMT 36320 Local Area Network Security Fundamentals (3) COMT 36300 Local Area Network Security Fundamentals (3) CS 10001 Computer Literacy (3) CS 13001 Computer Science I-Programming and Problem Solving (4) CS 23002 Discrete Structures for Computer Science (3) CS 23002 Discrete Structures for Computer Science (3) CS 33001 Software Engineering (3) CS 3301 Software Engineering (3) CS 3301 Computer Science II-Data Structures and Abstraction (4) CS 335101 Computer Science II-Data Structures and Forence (3) CS 335101 Computer Science II-Data Structures and Forence (3) CS 33001 Software Engineering (3) CS 335101 Computer Science II-Data Structures and Forence (3) CS 335101 Computer Science II-Data Structures and Forence (3) CS 33001 Software Engineering (3) CS 33001 Computer Science II-Data Structures Application (4) CS 335101 Computer Science II-Data Structures Application (5) TECH 10001 Information Technology (3) TECH 26301 Networking Hardware II (3) CS 335101 Computer Application (3) TECH 26301 Networking Hardware II (3) TECH 26301 Networking Hardware II (3) | COMM 26001 Public Communication in Society (3) | ITEC 47413 Digital Video in Education (3) |
| COMM 43000 Communication Technology and Human Interaction (3) COMM 45006 Media Use and Effects (3) COMM 45957 Language, Meaning and Cognition (3) COMT 36308 Ergonomics in Computer Systems (3) COMT 36310 Multimedia Development Tools (3) COMT 36318 Survey of Information Security, Internet Fraud and Computer Forensics (3) COMT 36320 Computer Forensics (3) COMT 36321 Network Forensics (3) COMT 36320 Local Area Network Security Fundamentals (3) COMT 36330 Local Area Network Security Fundamentals (3) CS 13001 Computer Science I-Programming and Problem Solving (4) CS 13001 Computer Science I-Data Structures and Abstraction (4) CS 23002 Discrete Structures for Computer Science (3) CS 33001 Introduction to Database System Design (3) CS 33001 Computer Science Indicators (3) CS 33010 Tomputer Science II-Data Structures and Abstraction (4) CS 33010 Introduction to Database System Design (3) CS 33010 Computer Science II-Data Structures and Abstraction (4) CS 33010 Introduction to Database System Design (3) CS 33010 Computer Science II-Data Structures and Abstraction (4) CS 33010 Introduction to Database System Design (3) CS 33010 Computer Architecture (3) CS 33010 Computer Architecture (3) TECH 26301 Networking Hardware II (3) TECH 43050 Inventive Problem Solving (3) | COMM 35600 Communication in Small Groups and Teams (3) | ITEC 47427 Technology and Learning (3) |
| COMM 45006 Media Use and Effects (3) COMM 45957 Language, Meaning and Cognition (3) COMM 36308 Ergonomics in Computer Systems (3) COMT 36310 Multimedia Development Tools (3) COMT 36310 Multimedia Development Tools (3) COMT 36318 Survey of Information Security, Internet Fraud and Computer Forensics (3) COMT 36320 Computer Forensics (3) COMT 36320 Computer Forensics (3) COMT 36321 Network Forensics (3) COMT 36321 Network Forensics (3) COMT 36320 Local Area Network Security Fundamentals (3) COMT 36330 Local Area Network Security Fundamentals (3) CS 10001 Computer Literacy (3) CS 10051 Introduction to Computer Science (4) CS 13001 Computer Science II-Data Structures and Abstraction (4) CS 23002 Discrete Structures for Computer Science (3) CS 33007 Introduction to Database System Design (3) CS 33201 Software Engineering (3) CS 33301 Software Engineering (3) CS 33301 Software Engineering (3) CS 43302 Systems Administration (3) TECH 43050 Inventive Problem Solving (3) TECH 43050 Inventive Problem Solving (3) TECH 43050 Inventive Problem Solving (3) | COMM 41000 Sports Communication (3) | ITEC 47430 Computer Applications in Education (3) |
| COMM 45957 Language, Meaning and Cognition (3) COMT 36308 Ergonomics in Computer Systems (3) COMT 36310 Multimedia Development Tools (3) COMT 36318 Survey of Information Security, Internet Fraud and Computer Forensics (3) COMT 36318 Computer Forensics (3) COMT 36321 Computer Forensics (3) COMT 36321 Network Forensics (3) COMT 36321 Network Forensics (3) COMT 36330 Local Area Network Security Fundamentals (3) CS 10051 Introduction to Computer Science (4) CS 13001 Computer Science I-Programming and Problem Solving (4) 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 33001 Software Engineering (3) CS 3301 Computer Architecture (3) CS 35101 Computer Architecture (3) CS 43202 Systems Administration (3) IMC 21008 Social Media Strategies (3) JMC 28001 Principles of Public Relations (3) MIS 24163 Principles of Public Relations (3) MIS 34054 Using Information Systems for Solving Business Problems (3) MIS 34056 Enterprise Systems (3) MIS 34058 Enterprise Systems (3) MIS 34070 Programming Information Systems for Solving (3) MIS 34070 Programming Theory and Applications (3) MIS 34158 Managerial and Technological Appets of Healthcare Systems (3) MIS 34165 Dynamics of Leadership (3) MIS 34068 Enterprise Syst | COMM 43000 Communication Technology and Human Interaction (3) | JMC 20001 Media, Power and Culture (3) |
| COMT 36308 Ergonomics in Computer Systems (3) COMT 36310 Multimedia Development Tools (3) COMT 36318 Survey of Information Security, Internet Fraud and Computer Forensics (3) COMT 36318 Survey of Information Security, Internet Fraud and Computer Forensics (3) COMT 36320 Computer Forensics (3) COMT 36320 Computer Forensics (3) COMT 36320 Local Area Network Forensics (3) COMT 36330 Local Area Network Security Fundamentals (3) COMT 36330 Local Area Network Security Fundamentals (3) CS 10001 Computer Literacy (3) CS 13001 Computer Science (4) CS 13001 Computer Science I-Programming and Problem Solving (4) CS 23001 Computer Science II-Data Structures and Abstraction (4) CS 23002 Discrete Structures for Computer Science (3) CS 33007 Introduction to Database System Design (3) CS 33001 Software Engineering (3) CS 3301 Computer Architecture (3) TECH 36302 Networking Hardware II (3) TECH 43050 Inventive Problem Solving (3) | COMM 45006 Media Use and Effects (3) | JMC 21001 Principles of Advertising (3) |
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| COMT 36321 Network Forensics (3) COMT 36330 Local Area Network Security Fundamentals (3) CS 10001 Computer Literacy (3) CS 10051 Introduction to Computer Science (4) CS 13001 Computer Science I-Programming and Problem Solving (4) CS 13001 Computer Science I-Programming and Problem Solving (4) CS 13401 User Level Computer Security (3) 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 33901 Software Engineering (3) CS 35101 Computer Architecture (3) CS 43202 Systems Administration (3) MIS 34165 Dynamics of Leadership (3) MIS 44042 Network Theory and Applications (4) MIS 44042 Network Th | Computer Forensics (3) | MIS 34054 Using Information Systems for Solving Business Problems (3) |
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| CS 10001 Computer Literacy (3) CS 10051 Introduction to Computer Science (4) CS 13001 Computer Science I-Programming and Problem Solving (4) CS 13401 User Level Computer Security (3) CS 23001 Computer Science II-Data Structures and Abstraction (4) 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 33223 Unix Tools (3) CS 33901 Software Engineering (3) CS 35101 Computer Architecture (3) CS 43202 Systems Administration (3) MIS 44042 Network Theory and Applications (3) MIS 44045 Information Systems Management (3) MIS 44045 Information Systems Management (3) PSYC 11762 General Psychology (3) PSYC 40445 Cognitive Psychology (3) TECH 10001 Information Technology (3) TECH 26301 Networking Hardware I (3) TECH 36302 Networking Hardware II (3) TECH 43050 Inventive Problem Solving (3) | COMT 36321 Network Forensics (3) | MIS 34070 Programming Theory and Applications (3) |
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| 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) CS 33007 Introduction to Database System Design (3) CS 3323 Unix Tools (3) CS 33223 Unix Tools (3) CS 33901 Software Engineering (3) CS 35101 Computer Architecture (3) CS 43202 Systems Administration (3) MIS 44045 Information Systems Management (3) MIS 44062 Supply Chain Management (3) PSYC 40445 Cognitive Psychology (3) TECH 10001 Information Technology (3) TECH 26301 Networking Hardware I (3) TECH 36302 Networking Hardware II (3) TECH 43050 Inventive Problem Solving (3) | CS 10051 Introduction to Computer Science (4) | MIS 34165 Dynamics of Leadership (3) |
| 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 33223 Unix Tools (3) CS 33901 Software Engineering (3) CS 35101 Computer Architecture (3) CS 43202 Systems Administration (3) MIS 44062 Supply Chain Management (3) PSYC 11762 General Psychology (3) PSYC 40445 Cognitive Psychology (3) TECH 10001 Information Technology (3) TECH 26301 Networking Hardware I (3) TECH 36302 Networking Hardware II (3) | CS 13001 Computer Science I-Programming and Problem Solving (4) | MIS 44042 Network Theory and Applications (3) |
| CS 23022 Discrete Structures for Computer Science (3) CS 33007 Introduction to Database System Design (3) CS 33223 Unix Tools (3) CS 33901 Software Engineering (3) CS 35101 Computer Architecture (3) CS 43202 Systems Administration (3) PSYC 40445 Cognitive Psychology (3) TECH 10001 Information Technology (3) TECH 26301 Networking Hardware I (3) TECH 36302 Networking Hardware II (3) TECH 43050 Inventive Problem Solving (3) | CS 13401 User Level Computer Security (3) | MIS 44045 Information Systems Management (3) |
| CS 33007 Introduction to Database System Design (3) CS 33223 Unix Tools (3) CS 33223 Unix Tools (3) CS 33901 Software Engineering (3) CS 35101 Computer Architecture (3) CS 43202 Systems Administration (3) PSYC 40445 Cognitive Psychology (3) TECH 10001 Information Technology (3) TECH 26301 Networking Hardware I (3) TECH 36302 Networking Hardware II (3) TECH 43050 Inventive Problem Solving (3) | CS 23001 Computer Science II-Data Structures and Abstraction (4) | MIS 44062 Supply Chain Management (3) |
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| CS 33901 Software Engineering (3) CS 35101 Computer Architecture (3) CS 43202 Systems Administration (3) TECH 26301 Networking Hardware I (3) TECH 36302 Networking Hardware II (3) TECH 43050 Inventive Problem Solving (3) | CS 33007 Introduction to Database System Design (3) | PSYC 40445 Cognitive Psychology (3) |
| CS 35101 Computer Architecture (3) TECH 36302 Networking Hardware II (3) CS 43202 Systems Administration (3) TECH 43050 Inventive Problem Solving (3) | CS 33223 Unix Tools (3) | TECH 10001 Information Technology (3) |
| CS 43202 Systems Administration (3) TECH 43050 Inventive Problem Solving (3) | CS 33901 Software Engineering (3) | TECH 26301 Networking Hardware I (3) |
| • | CS 35101 Computer Architecture (3) | TECH 36302 Networking Hardware II (3) |
| DSCI 10310 My Story on the Web (3) TECH 46312 Wireless Network and Telecommunication Systems (3) | CS 43202 Systems Administration (3) | TECH 43050 Inventive Problem Solving (3) |
| real ratio my atom and ratio (a) | DSCI 10310 My Story on the Web (3) | TECH 46312 Wireless Network and Telecommunication Systems (3) |
| DSCI 23410 Cognition in Technology (3) TECH 46330 Visual Basic Programming in Engineering Technology (3) | DSCI 23410 Cognition in Technology (3) | TECH 46330 Visual Basic Programming in Engineering Technology (3) |
| DSCI 26010 Telecommunication Infrastructure (3) TECH 46350 Network Management and Design Technology (3) | DSCI 26010 Telecommunication Infrastructure (3) | TECH 46350 Network Management and Design Technology (3) |
| DSCI 31010 Enterprise Architecture (3) VCD 14001 Visual Design Literacy (3) | DSCI 31010 Enterprise Architecture (3) | VCD 14001 Visual Design Literacy (3) |
| DSCI 33310 Human-Computer Interaction (3) VCD 14002 Communicating With Color (3) | DSCI 33310 Human-Computer Interaction (3) | VCD 14002 Communicating With Color (3) |
| DSCI 49992 Internship in Digital Sciences (1 - 6) VCD 34004 Visual Ethics (3) | DSCI 49992 Internship in Digital Sciences (1 - 6) | VCD 34004 Visual Ethics (3) |
| DSCI 49996 Individual Investigation in Digital Sciences (1-3) VCD 37000 Visual Design for Media: Advanced (3) | DSCI 49996 Individual Investigation in Digital Sciences (1-3) | VCD 37000 Visual Design for Media: Advanced (3) |

University Requirements Summary

| Туре | Categories | Course(s) Satisfying Category | Remaining Requirements |
|------|--|--------------------------------------|---------------------------|
| KCM | Kent Core I. Composition Enrollment based on placement test | visit www.kent.edu/catalog/kent-core | 6 |
| | Kent Core II. Mathematics and Critical Reasoning Enrollment based on placement test | visit www.kent.edu/catalog/kent-core | 3 |
| | Kent Core III. Humanities Minimum one course from humanities in Arts and Sciences; may fulfill diversity requirement | visit www.kent.edu/catalog/kent-core | 3 |
| | Kent Core IV. Fine Arts Minimum one course from the fine arts; may fulfill diversity requirement | visit www.kent.edu/catalog/kent-core | 3 |
| KFH | Kent Core V. Humanities or Fine Arts One additional course from either the humanities or fine arts category, may fulfill diversity requirement. | visit www.kent.edu/catalog/kent-core | 3 |
| | Kent Core VI. Social Sciences Must be selected from two curricular areas; may fulfill diversity requirement | visit www.kent.edu/catalog/kent-core | 6 |
| KBS | Kent Core VII. Basic Sciences Must include one laboratory | visit www.kent.edu/catalog/kent-core | 6 |
| KAD | Kent Core VIII. Additional May fulfill diversity requirement | visit www.kent.edu/catalog/kent-core | 6 |
| DD | Domestic Diversity Course Requirement Either domestic or global diversity must be from Kent Core | visit www.kent.edu/catalog/diversity | one course |
| DG | Global Diversity Course Requirement Either domestic or global diversity must be from Kent Core | visit www.kent.edu/catalog/diversity | one course |
| ELR | Experiential Learning Requirement Either course or non-course experience approved by the appropriate faculty member | DSCI 40910 | fulfilled |
| WIC | Writing-Intensive Course Requirement Minimum C (2.000) grade | DSCI 41510 | fulfilled |