# COURSE PREREQUISITE LIST

A minimum grade of C- must be earned in all Benchmarks, INST Core Courses, and INST Major Electives.

## BENCHMARK 1 (MUST BE COMPLETED WITHIN THE FIRST 30 CREDITS AFTER DECLARING THE MAJOR)

<table>
<thead>
<tr>
<th>Course</th>
<th>Notes</th>
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<tbody>
<tr>
<td>MATH 115 (or higher) - Precalculus</td>
<td>- Must have math eligibility of MATH115 or higher; and math eligibility is based on the Math Placement Exam or the successful completion of MATH003 with appropriate eligibility.</td>
</tr>
<tr>
<td>PSYC 100 - Introduction to Psychology</td>
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## BENCHMARK 2 (MUST BE COMPLETED WITHIN THE FIRST 60 CREDITS AFTER DECLARING THE MAJOR)

<table>
<thead>
<tr>
<th>Course</th>
<th>Notes</th>
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<tbody>
<tr>
<td>STAT 100 - Elementary Statistics and Probability</td>
<td>- ** MATH110, MATH112, MATH113, or MATH115; OR Must have math eligibility of STAT 100 or higher and math eligibility is based on the Math Placement Exam or the successful completion of Math 003 with appropriate eligibility. **</td>
</tr>
<tr>
<td></td>
<td>- ** Equivalent courses may fulfill this requirement. Please see an advisor. **</td>
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<td></td>
<td>- ** If you have taken a course with a prerequisite of MATH 141, please see an advisor. **</td>
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<tr>
<td>INST 126 - Intro to Programming</td>
<td>- Prerequisite: Minimum grade of C- in MATH 115 or higher</td>
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<tr>
<td></td>
<td>- ** Equivalent courses may fulfill this requirement.1 &amp; 2 **</td>
</tr>
<tr>
<td>INST 201 - Introduction to Information Science (Heroes and Villains)</td>
<td>- Required as Pre- or Co-requisite for all courses in the major.</td>
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<td></td>
<td>- ** Fulfills one General Education DSHS requirement. **</td>
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</table>

## INST CORE COURSES

<table>
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<tr>
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<tbody>
<tr>
<td>INST 311 - Information Organization</td>
<td>- Pre- or Co-requisite: Minimum grade of C- in INST 201</td>
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<tr>
<td>INST 314 - Statistics for Information Science</td>
<td>- Pre-requisites: Minimum grades of C- in MATH 115 or higher AND STAT 100 or equivalent</td>
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<tr>
<td></td>
<td>- Pre- or Co-requisite: Minimum grade of C- in INST 201</td>
</tr>
<tr>
<td></td>
<td>- ** Equivalent courses may fulfill this requirement. Please see an advisor. **</td>
</tr>
</tbody>
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1 INST 126 Equivalent Courses: A C- or higher in CMSC 106 OR other Intro to Programming course approved by the InfoSci program.

2 CMSC 131: A grade of C- or higher in CMSC 131 will fulfill both the INST 126 Benchmark requirement and the INST 326 Core Course requirement.
INSTITUTIONAL CORE COURSES – CONTINUED

**INST 326 - Object-Oriented Programming for Information Science**
- Pre-requisite: Minimum grade of C- in INST 126 OR CMSC 106 OR other Intro to Programming course approved by the InfoSci program
- Pre- or Co-requisite: Minimum grade of C- in INST 201
- ** Equivalent courses may fulfill this requirement.**

**INST 327 - Database Design and Modeling**
- Pre-requisite: Minimum grade of C- in INST 126 OR CMSC 106 OR CMSC 131 OR other Intro to Programming course approved by the InfoSci program
- Pre- or Co-requisite: Minimum grade of C- in INST 201
- ** Fulfills one General Education DSSP requirement.**

**INST 335 - Teams and Organizations**
- Pre-requisite: Minimum grade of C- in PSYC 100
- Pre- or Co-requisite: Minimum grade of C- in INST 201

**INST 346 - Technologies, Infrastructures, and Architecture**
- Pre-requisites: Minimum grades of C- in INST 326 (OR CMSC 131) AND INST 327
- Pre- or Co-requisite: Minimum grade of C- in INST 201

**INST 352 - Information User Needs and Assessment**
- Pre-requisite: Minimum grade of C- in INST 311
- Pre- or Co-requisite: Minimum grade of C- in INST 201

**INST 362 - User-Centered Design**
- Pre-requisites: Minimum grades of C- in INST 326 (OR CMSC 131) AND PSYC 100
- Pre- or Co-requisite: Minimum grade of C- in INST 201

**INST 490 - Integrative Capstone**
- Pre-requisites: ALL INST Core Courses (Cannot be Co-requisites)

Key:
- = Non-Technical
- = Technical
- = Hybrid
## COURSE PREREQUISITE LIST

### INST MAJOR ELECTIVES & DATA SCIENCE SPECIALIZATION

**SELECT 5 INST MAJOR ELECTIVES FROM THIS LIST**

- OR -

**PROPOSE MAJOR ELECTIVES TO BE COUNTED TOWARD THIS REQUIREMENT USING THE INFOSCI UPPER-LEVEL MAJOR ELECTIVES PROPOSAL FORM — APPROVAL IS NOT GUARANTEED**

- OR -

**PURSUE THE 5 DATA SCIENCE SPECIALIZATION COURSES**

**ALL INST BENCHMARKS MUST BE COMPLETED WITH A C- OR HIGHER PRIOR TO ENROLLMENT IN INST MAJOR ELECTIVES**

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**5 INST Major Electives**

1. ________  2. ________  3. ________  
4. ________  5. ________

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### Key:

- **= Non-Technical**
- **= Technical**
- **= Hybrid**

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### Data Science Specialization Courses

- **INST 354 – Decision Making for Information Science**
  - Pre-requisites: Minimum grades of C- in PSYC 100 AND INST 314

- **INST 377 – Dynamic Web Applications**
  - Pre-requisite: Minimum grade of C- in INST 327

- **INST 414 – Advanced Data Science**
  - Pre-requisite: Minimum grade of C- in INST 314

- **INST 447 – Data Sources and Manipulation**
  - Pre-requisites: Minimum grades of C- in INST 326 AND INST 327

- **INST 462 – Intro to Data Visualization**
  - Pre-requisite: Minimum grade of C- in INST 314

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*Check Testudo for course availability.*