# Bachelor of Arts or Science in Informatics
## Approved Courses and Substitutions

### Research Methods (3 Hours)
- CMS 348 - Communication Research Methods
- DES 320 - Design Theories/Methods
- DES 324 - Design Research/Methods
- HDF 315L - Research Methods in Human Development/Family Science
- I 305 - Research Methods for Informatics
- KIN 325K - Physiology of Exercise
- PSY 418 - Statistics & Research Design
- SOC 317M - Introduction to Social Research
- SOC 327M - Social Research Methods
- S W 313 - Social Work Research Methods
- S W 318 - Social Work Statistics
- TXA 328 - Research Methods in Textiles/Apparel
- WGS 356 - Intro to Feminist Research Method

### Statistics (3 Hours)
- ADV 309R - Introduction to Advertising and Public Relations Research
- AFR 302M - Numbering Race
- ANT 324L - Ethnographic Writing
- CMS 316L - Interviewing Principles and Practices
- ECO 329 - Economic Statistics
- EDP 308 - Statistical Reasoning/Literacy
- EDC 319 - Qualitative Inquiry/Education for Social Change
- EDP 371 - Introduction to Statistics
- GOV 350K - Statistical Analysis in Political Science
- I 306 - Statistics for Informatics
- M 362K - Probability I
- SDS 301 - Elementary Statistical Methods
- SDS 302 - Data Analysis for the Health Sciences
- SDS 303 - Statistics in Experimental Research
- SDS 304 - Statistics in Health Care
- SDS 305 - Statistics in Policy Design
- SDS 306 - Statistics in Market Analysis
- SDS 320E - Elements of Statistics
- SDS 321 - Introduction to Probability and Statistics
- SDS 323 - Statistical Learning and Inference
- SDS 328M - Biostatistics
- SOC 317L - Introduction to Social Statistics
- STA 309 - Elementary Business Statistics

### Ethical Foundations for Informatics or Equivalent (3 Hours)
- I 303 - Ethical Foundations for Informatics
- CMS 332D - Digital Ethics
- CMS322E - Communication Ethics
- J 352F - Ethics in Journalism
- PHL 318 - Introduction to Ethics

### Beginning-Level Programming Proficiency (3 Hours)
- I 304 - Programming for Informatics
- C S 303E - Elements of Computers and Programming
- J 326C - Intro Coding for Journalists
- LIN 313 - Language and Computers
- L A 319 - Computer Programming: Liberal Arts
- MIS 304 - Intro to Problem Solving and Programming
- SDS 322 - Introduction to Scientific Programming

### Beginning-Level Language Proficiency (3 Hours)
- American Sign Language (ASL): ASL 601D + 610D
- Arabic: ARA 601C
- Bengali: BEN 506 + 507
- Chinese: CHI 506 + 507, 604
- Classical Antiquity Latin: LAT 506 + 507, 601C
- Czech: CZ 406 + 407
- Danish: DAN 604
- Dutch: DCH 604
- German: GER 506 + 507, 604
- Greek (Ancient): GK 506 + 507, 804
- Greek (Modern): GK 502 + 503, 602C
- Hebrew: HEB 601C, 602C
- Hindi: HIN 506 + 507, 604
- Italian: ITL 601C
- Japanese: JPN 601D + 610D
- Korean: KOR 506 + 507, 604
- Latin American Studies Indigenous Lat. Amer. Lang.: LAL 601C
- Malayalam: MAL 506 + 507
- Norwegian: NOR 604
- Persian: PRS 601C
- Polish: POL 506 + 507, 601C
- Portuguese: POR 601D + 610D, POR 610S
- Russian: RUS 406+ 407, 601C
- Sanskrit: SAN 506 + 507
- Serbian/Croatian: SC 506 + 507, 601C
- Slavic & Eurasian: SEL 506 + 507, 601C
- Spanish: SPN 601D + 610D, 604
- Swedish: SWE 604
- Tamil: TAM 506 + 507, 604
- Telugu: TEL 506 + 507, 604
- Turkish: TUR 601C
- Urdu: URD 506 + 507, 604
- Yiddish: YID 604
- Yoruba: YOR 601C

### Additional Liberal Arts Coursework (6 Hours)
Petitions to count additional courses will be considered during registration and add/drop periods.
- ADV 324 - Communicating Sustainability
- I 320.2 - Children’s Literature
Students may select from the following courses. Any of the research methods, statistics, and programming courses listed in the section above will also count toward the STEM requirement.

**ADDITIONAL SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH COURSEWORK (6 HOURS)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>CMS 350C</td>
<td>Crowds, Clouds and Community</td>
<td>E E 379K</td>
<td>Data Science Laboratory - T</td>
</tr>
<tr>
<td>C S 302</td>
<td>Computer Fluency</td>
<td>E S 301</td>
<td>Engineering Design and Problem Solving</td>
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<tr>
<td>C S 303E</td>
<td>Elements of Computers and Programming</td>
<td>GRG 356T</td>
<td>Geoprocessing - T</td>
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<td>C S 313E</td>
<td>Elements of Software Design</td>
<td>I 320.1</td>
<td>Information in Cyberspace</td>
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<td>C S 323E</td>
<td>Elements of Scientific Computing</td>
<td>M 301</td>
<td>College Algebra</td>
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<td>C S 323H</td>
<td>Elements of Scientific Computing: Honors</td>
<td>M 302</td>
<td>Introduction to Mathematics</td>
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<td>C S 324E</td>
<td>Elements of Graphics and Visualization</td>
<td>M 303D</td>
<td>Applicable Mathematics</td>
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<td>C S 326E</td>
<td>Elements of Networking</td>
<td>M 403K</td>
<td>Calculus I for Business and Economics</td>
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<td>C S 327E</td>
<td>Elements of Databases</td>
<td>M 305E</td>
<td>Analytic Geometry</td>
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<td>C S 329E</td>
<td>Advanced Topics in Elements of Computing</td>
<td>M 305G</td>
<td>Preparation for Calculus</td>
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<td>C S 329E</td>
<td>Elements of Computing in Society</td>
<td>M 408C</td>
<td>Differential and Integral Calculus</td>
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<td>C S 329E</td>
<td>Elements of Data Analytics</td>
<td>M 408D</td>
<td>Sequences, Series, and Multivariable Calculus</td>
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<td>C S 329E</td>
<td>Elements of Data Visualization</td>
<td>M 308M, 408M</td>
<td>Multivariable Calculus</td>
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<td>C S 329E</td>
<td>Elements of Game Development</td>
<td>M 408K</td>
<td>Differential Calculus</td>
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<td>C S 329E</td>
<td>Elements of Mobile Computing</td>
<td>M 408R</td>
<td>Differential and Integral Calculus for the Sciences</td>
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<td>C S 329E</td>
<td>Elements of Navigating Cyberspace</td>
<td>MAN 337</td>
<td>Tech Transfer/Entrepreneurship</td>
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<td>C S 329E</td>
<td>Elements of Web Programming</td>
<td>MIS 373</td>
<td>Predictive Analytics &amp; Data Mining - T</td>
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<td>E E 379K</td>
<td>Information Security &amp; Privacy - T</td>
<td>SDS 301</td>
<td>Elementary Statistical Methods</td>
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