

Computer Science Core Requirements

| Computer Science Core Requirements | | | | | |
|------------------------------------|---|---|--|--|--|
| COS 120 | 4 | Introduction to Computational Problem Solving | | | |
| COS 121 | 4 | Foundations of Computer Science | | | |
| COS 143 | 3 | Interactive Webpage Development | | | |
| COS 265 | 4 | Data Structures and Algorithms | | | |
| COS 280 | 3 | Introduction to Artificial Intelligence | | | |
| COS 326 | 3 | Data Visualization | | | |
| COS 343 | 3 | Database Systems | | | |
| SYS 411 | 3 | Machine Learning | | | |
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Complete one of the following concentration areas: Biology

| BIO 203 BIO 306 ENS 204 | 3 | Introduction to Bioinformatics |
|--|---|--|
| <u>Chemistry</u> | | |
| | 4 | <i>m the following:</i> General, Organic, and Biochemistry I College Chemistry I |
| | 4 | m the following: General, Organic, and Biochemistry II College Chemistry II |
| | 4 | m the following: Analytical Chemistry I Physical Chemistry I |
| | 4 | m the following: Analytical Chemistry II Physical Chemistry II |
| Physics PHY 211 PHY 212 | | University Physics I University Physics II |
| | 3 | <i>m the following:</i> Modern Physics Modern Physics |
| Select <u>one</u> course PHY 321 PHY 412 | 3 | |
| | | |

BS in Data Science 2024-2025

Student Name: _____

Student ID: _____

| Mathematics Co | ore F | Requirements |
|--|--------|--|
| MAT 180 | | Problem Solving |
| MAT 230 | 4 | Calculus II |
| MAT 240 | 4 | Calculus III Justifications in Mathematics |
| MAT 255 | 3 | Justifications in Mathematics |
| MAT 311 | 3 | Introduction to Data Science |
| MAT 345 | 4 | Linear Algebra |
| MAT 233 MAT 311 MAT 345 MAT 352 | 4 | Mathematical Statistics |
| MAT 382 | - 3 | Advanced Statistical Methods |
| MAT 392 | 1 | |
| MAT 393 | 3 | Practicum |
| MAT 493 | 3 | Senior Capstone |
| Select one cours | e fro | |
| COS 243 | 3 | Multi-tier Web Application Development |
| COS 380 | 3 | Natural Language Processing |
| MAT 310 | 3 | Mathematical Modeling with Numerical Analysis Advanced Calculus |
| MAT 340 | 4 | Advanced Calculus |
| MAT 455 | 3 | Abstract Algebra |
| Political Science | | |
| POS 100 | 3 | American Politics |
| POS 245 | 3 | Research in Political Studies |
| POS 331 | 3 | Research in Political Studies Public Policy |
| POS 344 | 3 | Campaigns and Elections |
| Psychology | | |
| PSY 100 | 3 | |
| PSY 272 | 3 | |
| PSY 425 | | Industrial-Organizational Psychology |
| Select <u>one</u> cours PSY 321 | | om the following: Social Psychology |
| Sociology | U | Coolari Sychology |
| SOC 210 | 3 | Contemporary Social Issues |
| SOC 250 | 3 2 | Principles of Research and Analysis |
| SOC 230 | 2 | |
| SOC 313 | 3 | |
| Select <u>one</u> cours | e fro | om the following: |
| SOC 100 | | Introduction to Sociology |
| SOC 110 | 3 | Introduction to Global Societies |
| Sport Manageme | | Introduction to Sport Management |
| SIVIA 115 | ა ი | Introduction to Sport Management Introduction to Sport Technology and Analytics |
| SMA 113 SMA 210 SMA 352 | ა ი | Event and Facility Management |
| SMA 352 SMA 354 | 3 | Sport Finance |
| Systems | | |
| SYS 101 | 3 | Introduction to Systems |
| SYS 390 | 3 | Information Systems Analysis |
| SYS 394 | 4 | Information Systems Design |
| SYS 401 | 3 | Operations Research |
| | | |

Total Major Hours Required: 76-83

Attendance at 15 Mathematics sanctioned events is required.

Degree Requirements

- 128 minimum hours and 42 minimum upper-division hours (3XX/4XX course numbers).
- Fifty percent of the minimum hours must be completed at Taylor-64 hours.
- Fifty percent of the major/minor hours must be completed at Taylor.
- 22 of the last 30 hours earned must be completed at Taylor.
- Cumulative GPA of 2.0; major GPA of 2.3 (higher GPA may be required in certain curricula). (See current catalog for policy).
- All foundational core, major, minor, and proficiency requirements must be completed (including Senior Comprehensive Exam/Paper/Project).
- Two years of one foreign language is required for the BA degree.
- Candidates for 2 degrees must complete a minimum of 158 semester hours and meet all requirements for 2 different majors.