

No BDS Major Requirements can be taken with an S/U grading basis.

Biological Data Sciences Major Requirements (- credits)

Foundational Sciences (47 credits) - double counting allowed

Chemistry* *CH 222Z & 2228Z also recommended as prereqs for add'l upper division BI classes

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| | (5) | CH 221Z & 227Z | General Chemistry & Lab - [p/coreq \geq MTH 111Z or ALEKS \geq 60] |
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Biological Sciences

Biology Series

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| | (5) | BI 221Z | Prin Biology: Cells - [p/coreq CH 121 or CH 221Z/2227Z: \geq D-] |
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| | (5) | Bi 222Z | Prin Biology: Organisms - [preq BI 221Z: \geq C-; p/coreq CH 121 or CH 221Z/227Z: \geq D-] |
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| | (5) | BI 223Z | Prin Biology: Populations - [preq BI 221Z: \geq C-; p/coreq CH 121 or CH 221Z/227Z: \geq D-] |
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Upper division BI courses

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| | (4) | BI 311 | Genetics - [preq (BI 221Z-223Z) or (BI204-206): \geq C-] |
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| | (3) | BI 445 | Evolution - [preq BI 311: \geq D-] |
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Mathematics

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| | (4) | MTH 251 | Differential Calculus - [preq ALEKS \geq 75 or (MTH 112Z: \geq C-)] |
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| | (4) | MTH 252 | Integral Calculus - [preq MTH 251: \geq C-] |
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Statistics

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| | (4) | ST 351 | Introduction to Statistical Methods |
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| | (4) | ST 411 | Methods of Data Analysis [rec ST 351] |
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| | (4) | ST 412 | Methods of Data Analysis [preq ST 411: \geq D-] |
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Biological Data Sciences Major Core (17-23 credits) - double counting allowed

Biological Data Sciences Core

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| | (3) | BDS 211 | Use & Abuse of Data: Critical Think Sci - [p/coreq MTH 111Z: \geq C-] |
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| | (4) | BDS 311 | Computational Approaches for Biological Data - [preq BDS 310: \geq C-] |
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| | (3) | BDS 411 | ^Analysis of Biological Data: Case Studies |
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| | (3) | BDS 491 | Capstone Projects in Biological Data Science I |
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| | (1) | BDS 420 | +Reflect on Experiential Learning Activities |
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Experiential Learning Activity: **choose 1 of the following sets of courses**

For Credit

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| | (1-3) | BDS 401 | Research (with BPP faculty) - [advisor approval] |
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| | (1-3) | BDS 403 | Thesis - [department & advisor approval] |
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Non-Credit

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| | (0) | BDS 003 | Undergraduate Research - [advisor approval] |
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| | (0) | BDS 004 | Internship - [advisor approval] |
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DPOA: Difference, Power, and Oppression Advance Course: **choose 1** (double counts with Core Ed)

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| | (3) | AG 311 | Indigenous Agriculture and Subsistence |
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| | (3) | ENSC 333/ENSC | Environmental Justice [preq WR 121: \geq C-] |
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BDS Option (34-49 credits): **choose 1 option** - double counting dependent on option selection

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| | | Computational Biology |
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| | | Ecological and Environmental Informatics |
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| | | Genomics |
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| Core Ed (42-51 credits)* | | <i>*Not required for Post Baccalaureate students (2nd bachelor's degree)</i> |
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| Foundational Core (31-37 credits) | | |
| Writing Foundations (4 credits) | | |
| <input type="checkbox"/> | (4) WR 121Z | Composition I |
| Arts and Humanities (6-8 credits; 2 courses) | | |
| <input type="checkbox"/> | (3-4) General | Choose 1 |
| <input type="checkbox"/> | (3-4) Global | Choose 1 |
| Quantitative Literacy and Analysis (4 credits) | | |
| <input checked="" type="checkbox"/> | (4) MTH 251 | |
| Communication, Media, and Society (3-4 credits) | | |
| <input type="checkbox"/> | (3-4) | Choose 1 |
| Social Science (3-4 credits) | | |
| <input type="checkbox"/> | (3-4) | Choose 1 |
| Scientific Inquiry and Analysis (8-10 credits; 2 courses from different subject areas) | | |
| <input checked="" type="checkbox"/> | (5) CH 121 or CH 221Z & CH 227Z | |
| <input checked="" type="checkbox"/> | (5) BI 221Z | |
| Difference, Power, and Oppression Foundations (3-4 credits) | | |
| <input type="checkbox"/> | (3-4) | Choose 1 |
| Signature Core (11-14 credits) | | |
| Transitions (2) | | |
| <input type="checkbox"/> | (2) CORE 100 or 300 | CORE 100 for freshman admits; CORE 300 for transfer admits |
| Beyond OSU Career Integration (0-2 credits) | | |
| <input checked="" type="checkbox"/> | (1) BDS 420 | |
| Difference, Power, and Oppression Advanced (3-4 credits) | | |
| <input checked="" type="checkbox"/> | (3-4) AG 311, ENSC 333, or GEOG 333 | |
| Seeking Solutions (3-4 credits) | | |
| <input type="checkbox"/> | (3-4) | Choose 1 |
| Writing Elevation (3-4 credits) | | |
| <input type="checkbox"/> | (4) | Choose 1 |
| Writing Intensive Curriculum (3-4 credits) | | |
| <input checked="" type="checkbox"/> | (3) BDS 411 | |
| Electives (10-40 credits) | | |
| <input type="checkbox"/> | May be needed for first degree, undergraduate students to meet the 180 credit requirement | |