

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

Botany Major Requirements (121-137 credits)

Foundational Sciences (47-53 credits) - double counting allowed

Chemistry Series: *complete one series*

100 level series (Corvallis campus & Ecampus)

	(5)	CH 121	General Chemistry
	(5)	CH 122	General Chemistry - [preq CH 121: ≥ C-]
	(5)	CH 123	General Chemistry - [preq CH 122: ≥ C-]

200 level series (Corvallis campus)

	(5)	CH 221Z & 227Z	General Chemistry & Lab - [p/coreq ≥ MTH 111Z or ALEKS ≥ 60]
	(5)	CH 222Z & 228Z	General Chemistry & Lab - [preq CH 221Z: ≥ C-] & [CH 227Z: ≥ D]
	(5)	CH 223Z & 229Z	General Chemistry & Lab - [preq CH 222Z: ≥ C-] & [CH 228Z: ≥ D]

Biology Series: *complete one series*

Corvallis campus

	(5)	BI 221Z	Prin Biology: Cells - [p/coreq CH 121 or CH 231/261: ≥ D-]
	(5)	Bi 222Z	Prin Biology: Organisms - [preq BI 221Z: ≥ C-; p/coreq CH 121 or CH 221Z/227Z: ≥ D-]
	(5)	BI 223Z	Prin Biology: Populations - [preq BI 221Z: ≥ C-; p/coreq CH 121 or CH 221Z/227Z: ≥ D-]

Ecampus

	(4)	BI 204	Introductory Biology I
	(4)	BI 205	Introductory Biology II - [preq BI 204: ≥ C-; p/coreq CH 121 or CH 221Z/227Z: ≥ D-]
	(4)	BI 206	Introductory Biology III - [preq BI 204: ≥ C-; p/coreq CH 121 or CH 221Z/227Z: ≥ D-]

Organic Chemistry

	(4)	CH 331	Organic Chemistry - [preq CH 123 or CH 223Z/229Z: ≥ C-]
	(4)	CH 332	Organic Chemistry - [preq CH 331: ≥ C-]

Biochemistry: *choose 1*

	(4)	BB 350	Elementary Biochemistry - [preq CH 331 & p/coreq CH 332: ≥ D-]
	(7)	BB 450 & 451	General Biochemistry - [preq CH 332: ≥ D-] & [preq BB 450: ≥ D-]

Cell & Molecular Biology

	(4)	BB 314	Cell Mole Bio - [preq (BI 221Z-223Z) or (BI 204-206) & (CH 123 or CH 221Z/227Z): ≥ C-]
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Genetics: *choose 1*

	(4)	BI 311	Genetics - [preq (BI 221Z-223Z) or (BI 204Z-206Z): ≥ C-]
	(4)	PBG 430 & 431	Plant Genetics & Recitation - [rec 1 year biology & chemistry]

Quantitative Skills & Analysis (18-22 credits) - double counting allowed

Math: *choose 2*

	(4)	MTH 111Z	Precalculus I: Functions - [preq ALEKS ≥ 46 or (MTH 095 or MTH 103: ≥ C-)]
	(4)	MTH 112Z	Precalculus II: Trigonometry - [preq ALEKS ≥ 60 or (MTH 111Z: ≥ C-)]
	(4)	MTH 227	Calculus & Probability for Life Sciences I - [preq ALEKS ≥ 075 or (MTH 112Z: ≥ C-)]
	(4)	MTH 228	Calculus & Probability for Life Sciences II - [preq MTH 227: ≥ C-]
	(4)	MTH 241	Calculus for Management & Social Science - [preq ALEKS ≥ 60 or (MTH 111Z: ≥ C-)]
	(4)	MTH 245	Math for Management, Life, & Social Science - [preq ALEKS ≥ 60 or (MTH 111Z: ≥ C-)]
	(4)	MTH 251	Differential Calculus - [preq ALEKS ≥ 75 or (MTH 112Z: ≥ C-)]
	(4)	MTH 252	Integral Calculus - [preq MTH 251: ≥ C-]

Statistics

	(4)	ST 351	Introduction to Statistical Methods
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Additional Quantitatives Skills: choose 2 (continued on next page)

	(4) MTH	3rd MTH class higher than MTH 111Z
	(4) ST 352	Introduction to Statistical Methods - [preq ST 352: ≥ D-]
	(3) CS 201	Computer Programming for Non-CS Majors - [preq ≥ MTH 111Z: ≥ C-]
	(3) BDS 211	Use & Abuse of Data: Critical Think Sci - [p/coreq MTH 111Z: ≥ C-]
	(4) BDS 310	Foundations of Biological Data Sciences - [p/coreq MTH 227 or MTH 251: ≥ C-]
	(3) BDS 311	Computational Approaches for Biological Data - [preq BDS 310: ≥ C-]
	(4) GEOG 201	Foundations of Geospatial Science & GIS
	(4) GEOG 360	GIScience I: Geographic Information Systems & Theory
	(4) GEOG 460	GIS & Spatial Data Science - [preq GEOG 360 & ST 351 & (MTH 112Z or 251): ≥ C-]
	(5) PH 201	General Physics - [rec MTH 111Z & MTH 112Z]
	(5) PH 202	General Physics - [rec MTH 111Z & MTH 112Z & PH 201]
	(4) CSS 205	Soil Science (Ecampus)
	(4) SOIL 205 & 206	Soil Science (Corvallis campus) - [take concurrently]
	(4) SOIL 316	Nutrient Cycl Agecosys - [preq (CH 121 or CH 221Z: ≥ D-) & (SOIL 205 or CSS 205: ≥ C)]

Botany Major Core (35-39 credits) - double counting allowed**Botany Core**

	(4) BOT 220	Introduction to Plant Biology
	(4) BOT 313	Plant Structure - [preq (BI 221Z & 222Z) or (BI 205 & 206): ≥ D-]
	(4) BOT 321	Plant Systematics - [rec BI 223Z]
	(4) BOT 331	Plant Phys - [preq (BI 221Z & 222Z) or (BI 205 & 206) & (CH 123 or CH 223Z/229Z): ≥ D-]
	(4) BOT 341	Plant Ecology - [rec BOT 321 & BI 223Z]

Non-Vascular: choose 1

	(4) BOT 417	Phycology - [rec 1 year college level biology]
	(4) BOT 461	Mycology - [preq (BI 221Z-223Z) or (BI 204-206): ≥ C-]
	(4) BOT 465	Lichenology - [rec BI 223Z and two botany courses]

Writing Intensive Course (WIC): choose 1

	(3) BOT 323	Flowering Plants of the World - [rec (BI 221Z-223Z) or (BI 204-206)]
	(3-4)	or other approved WIC: BI 371, MB 311, SUS 325, SOIL 395, or WR 462

Experiential Learning Activity: choose 1**For Credit**

	(2-3) BOT 401	Research (with Botany faculty) - [advisor approval]
	(2-3) BOT 406	Project: Curatorial Assistant - [department & advisor approval]
	(2-3) BOT 410	Internship - [advisor approval]

Non-Credit

	(0) BOT 003	Undergraduate Research - [advisor approval]
	(0) BOT 004	Internship - [advisor approval]

Professional Development

	(1) BOT 407	Seminar
	(1) BOT 411	Leveraging Your Experiential Learning* *(taken the last year of degree)

DPOA: Difference, Power, and Oppression Advance Course: choose 1 (double counts with Core Ed)

	(3) AG 311	Indigenous Agriculture and Subsistence
	(3) ENSC/GEOG 333	Environmental Justice [preq WR 121: ≥ C-]
	(3) FW 340	Power & Justice in the US Natural Resource Mgmt [no Freshman or Sophomores]
	(3) SUS 331	Sustainability, Justice, and Engagement

Botany Option (21-23 credits): choose 1 option - double counting dependent on option selection**Corvallis campus**

<input type="checkbox"/>	Comprehensive Botany
<input type="checkbox"/>	Customizable
<input type="checkbox"/>	Ecology, Evolution, Conservation
<input type="checkbox"/>	Molecular, Cellular, Genomics
<input type="checkbox"/>	Mycology & Plant Pathology

Ecampus

<input type="checkbox"/>	Customizable
<input type="checkbox"/>	Mycology & Plant Pathology

Core Ed (42-51 credits)***Not required for Post Baccalaureate students (2nd bachelor's degree)***Foundational Core (31-37 credits)****Writing Foundations (4 credits)**

<input type="checkbox"/>	(4) WR 121Z	Composition I
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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 111Z or higher
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Communication, Media, and Society (3-4 credits)

<input type="checkbox"/>	(3-4)	Choose 1
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Social Science (3-4 credits)

<input type="checkbox"/>	(3-4)	Choose 1
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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
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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
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Beyond OSU Career Integration (0-2 credits)

<input checked="" type="checkbox"/>	(1) BOT 411
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Difference, Power, and Oppression Advanced (3-4 credits)

<input checked="" type="checkbox"/>	(3-4) AG 311, FW 340, ENSC 333, or GEOG 333
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Seeking Solutions (3-4 credits)

<input type="checkbox"/>	(3-4)	Choose 1
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Writing Elevation (3-4 credits)

<input type="checkbox"/>	(4)	Choose 1
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Writing Intensive Curriculum (3-4 credits)

<input checked="" type="checkbox"/>	(3-4) BOT 323 or other approved WIC class
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Electives (5-28 credits)

<input type="checkbox"/>	May be needed for first degree, undergraduate students to meet the 180 credit requirement
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Chemistry Minor

Corvallis campus, undergraduate students can earn a Chemistry Minor with 2 additional classes.