

**INTEGRATED STUDIES COURSE CHECKLIST
Natural Sciences Concentration**

NAME: _____ STUDENT ID#: _____ PHONE: _____

Expected Graduation: Quarter: _____ Year _____ Accepted to Major: Quarter _____ Year _____

Advisor Signature/Date: _____

LD: Lower Division; UD: Upper Division

CORE COURSES

Qtr Taken	Course	LD	UD	Grade	Qtr Taken	Course	LD	UD	Grade
Language Arts					Social Sciences				
	LIN 2100 Foundations of Lang Study or COM 1101 Interpersonal Communication or COM 1321 Public Speaking	5				GEO 1110 World Regional Geography or POL 1120 American Gov & Politics	5		
	EDRD 3516 Children's Literature or EDRD 3517 Young Adult Literature <i>Course substitution:</i>		3			HIS 2502 The U.S. to 1876 or HIS 2503 The U.S. from 1876 <i>Course substitution:</i>	5		
Mathematics					Natural Sciences				
	MAT 1560 Numerical Reasoning	4				BIO 2101 General Biology	5		
	MAT 2561 Statistical and Algebraic Reasoning	4				BIO 2102 General Biology	5		
	MAT 3562 Geometric Reasoning		4			PHY 2567 Dev Concepts in Phys. Science I	3		
	<i>Course substitution:</i>					PHY 2568 Dev Concepts in Physical Science II <i>Course substitution:</i>	4		
The Arts					Health & Fitness				
	ART 3546 Art Education		3			HHP 3510 Teaching Physical Education		5	
	MUS 3501 Elementary Music Education		3						
	TRE 3800 Theatre Education		3						
	<i>Course substitution:</i>					<i>Course substitution:</i>			

NATURAL SCIENCES CONCENTRATION COURSES

Qtr Taken	Course	LD	UD	Grade	Qtr Taken	Course	LD	UD	Grade
	BIO 2103 General Biology	5				Upper division electives (<i>see choices on back</i>) (<i>At least 3 W credits and 2 credits of practicum.</i>)		18	
	Lower division elective (<i>see choices on back</i>)	5							
	Capstone: EDU 4899 Teacher as Person – Capstone (2) <i>W</i> (<i>required for certification</i>) or BIO/CHM/PHY 4899 Natural Sciences Capstone Seminar (1) (NOTE: not W credit)		2						

Lower-Division Elective Course (5 credits)

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|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> CHM 1211 General Chemistry I (5) | <input type="checkbox"/> PHY 1135 Astronomy: Individual and the Universe (5)
<i>Note: Blakely version with field experience is recommended</i> |
| <input type="checkbox"/> CHM 1212 General Chemistry II (5) <i>Prereq CHM 1211</i> | <input type="checkbox"/> PHY 1142 Earth System Science (5) |
| <input type="checkbox"/> CHM 1330 Organic and Biological Chemistry (5) <i>Prereq CHM 1211</i> | <input type="checkbox"/> PHY 1143 Topics in Global Climate Change (5) |
| <input type="checkbox"/> *HIS 2491 Origins of Western Science (5) | <input type="checkbox"/> PHY 1145 Oceanography (5) |
| <input type="checkbox"/> *HIS 2492 Foundations of Modern Science (5) | |

Upper-Division Elective Courses (18 credits)

Note: Include at least 3 W credits (5 if not taking EDU Capstone) and at least 2 credits of practicum. At most 8 credits may be selected from courses listed with an asterisk, including the HIS courses above.*

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| <input type="checkbox"/> *BIO 3000 Intro to Biological Anthropology (5) | <input type="checkbox"/> *BIO/CHM/PHY 4899 Natural Sciences Capstone Seminar (1-3) |
| <input type="checkbox"/> BIO 3302 Coral Reef Ecology (5) | <input type="checkbox"/> CHM 3225: Chem Equilibrium & Anal (5) <i>Prereq: CHM 1212</i> |
| <input type="checkbox"/> BIO 3303 Evolutionary Ecology in the Galapagos Islands (5) | <input type="checkbox"/> CHM 3228: Electroanalytical Chem (2) <i>Prereq: CHM 3225</i> |
| <input type="checkbox"/> BIO 3310 Ecology (5) <i>W Note: prerequisite MAT 1360</i> | <input type="checkbox"/> CHM 3229: Analytical Spectroscopy (2) <i>Prereq: CHM 3225</i> |
| <input type="checkbox"/> BIO 3351 General Microbiology (5) | <input type="checkbox"/> CHM 3371: Organic Chemistry I (5) <i>Prereq: CHM 1212</i> |
| <input type="checkbox"/> BIO 3432 Biodiversity: Vertebrate Biology (5) | <input type="checkbox"/> CHM 3372: Organic Chemistry II (5) <i>Prereq: CHM 3371</i> |
| <input type="checkbox"/> BIO 3434 Animal Behavior (5) | <input type="checkbox"/> CHM 3373: Organic Chemistry III (5) <i>Prereq: CHM 3372</i> |
| <input type="checkbox"/> BIO 3453 Biodiversity: Plant Identification and Taxonomy (5) | <input type="checkbox"/> *PHY 3011 Global Climate Change: Scientific, Social & Moral Implications (5) |
| <input type="checkbox"/> BIO 3456 Mycology (5) | <input type="checkbox"/> PHY 4501 Physics as a Process of Inquiry I (5) <i>W</i> |
| <input type="checkbox"/> BIO 4117 (Blakely FS) Birds of the Pacific Northwest (5) | <input type="checkbox"/> PHY 4502 Physics as a Process of Inquiry II (5) <i>W</i> |
| <input type="checkbox"/> BIO 4415 Plant Physiology (5) | <u>Practicum Courses</u> (at least 2 credits): |
| <input type="checkbox"/> *BIO 4615 Issues and Values in Biology (3) <i>W</i> | <input type="checkbox"/> *BIO 4930 Biology Practicum (1-5) |
| <input type="checkbox"/> BIO 4735 (Blakely FS) Marine Biology (5) | <input type="checkbox"/> *CHM 4930 Chemistry/Biochemistry Practicum (1-5) |
| <input type="checkbox"/> BIO 4744 (Blakely FS) Marine Botany (5) | <input type="checkbox"/> *PHY 4510 Prep for Tchg Physical Science (1-3) |
| <input type="checkbox"/> BIO 4810 (Blakely FS) Marine Ecology (5) <i>W</i> | <input type="checkbox"/> *PHY 4511 Prep for Tchg Undergrad Mechanics (1-3) |
| <input type="checkbox"/> BIO 4815 (Blakely FS) Aquatic Ecology (5) | <input type="checkbox"/> *PHY 4512 Prep for Tchg Undergrad Electromagnetism (1-3) |
| <input type="checkbox"/> BIO 4825 (Blakely FS) Forest Ecology (5) | <input type="checkbox"/> *PHY 4513 Prep for Tchg Undergrad Waves & Optics (1-3) |
| <input type="checkbox"/> BIO 4835 (Blakely FS) Conservation Biology (5) | <input type="checkbox"/> *PHY 4520 Preparing to Teach (2) |
| <input type="checkbox"/> BIO 4880 (Blakely FS) Blakely Field Studies (1-5) | |
| <input type="checkbox"/> BIO 4978 Biological Research Proposal (1) <i>W</i> | |
| <input type="checkbox"/> BIO 4979 Biological Research (1-4) <i>W</i> | |