

Natural Resources DTA Running Start Guide

ABOUT NATURAL RESOURCE CAREERS | Natural Resources is a dynamic field that bridges the gap between society and the environment. It focuses on understanding, monitoring, managing, and protecting Earth's natural resources (things like forests, water, and wildlife). Natural Resources professionals are involved in a wide range of activities, from studying ecosystems and assessing environmental impacts to developing sustainable practices and policies.

ABOUT THE NATURAL RESOURCE DTA | The Natural Resources DTA pathway is a *curated pathway* mapped to the existing Associates of Arts and Sciences DTA (AAS-DTA) requirements. **Students completing this pathway have significant flexibility in their course selections as they only need to meet the AAS-DTA requirements to earn the WVC credential.**

Running Start students will generally need to make substitutions to the courses outlined to fit the high school requirements. As high school students, they also have different factors they may want to consider. This packet serves to support students, parents, and College Navigators in understanding these elements. The [Natural Resources DTA Advisor](#) is also available to assist College Navigators in determining courses that will best prepare students for their goals in the field of Natural Resources.

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Planning Your Degree

The information below can help you and your College Navigator develop a plan that works for your interests and needs, while also allowing you to complete your high school and college requirements.

English/Writing

- **English Composition (ENGL&101)** is required for the DTA at WVC so all students should take this course.
- **Technical Writing (ENGL&235)** is recommended for students. This course will prepare you for writing reports in your science classes, as well as in your career. Most bachelor (4-year degrees) in Natural Resource degrees require ENGL&235. However, ENGL202 and ENGL203 will also work if your high school does not allow ENGL&235.

Science Classes

- The **majors biology series (BIOL&211, 212, 213)** is part of the [standard Natural Resources DTA pathway](#). However, Running Start students often choose alternative science courses that are aligned with their interests and support development of foundational knowledge for the majors-biology series which they take while attending a 4-year institution or during an additional year at WVC after completing Running Start.
- It is recommended that students take classes in **biology (BIOL)**, **environmental science (ENVS)**, and **chemistry (CHEM)**. **Lab courses** are strongly recommended.
- Courses that support foundational knowledge for Natural Resources include (* denotes a lab): **Intro to Stream Ecology*** (ENVS 170), **Salmon, Ecosystems, and Society (BIOL103)**, **Environmental Science*** (ENVS125), **Insects & Ecosystems (BIOL 185)**, **NW Environments (BIOL127)**, **Chemical Concepts (CHEM& 110)**, **Intro to Marine Biology (BIOL106)**, **Intro to Chemistry*** (CHEM&121), and **Environmental Geology (GEOL 218)**.

Mathematics

- Most natural resource professionals need a basic understanding of statistics.
- If a Running Start student is ready, they can take **Introduction to Statistics (MATH&146)**, but most Running Start students take **Math in Society (MATH&107)**. Both classes meet the DTA requirements. Some Running Start students may take both, with **MATH&146** counting as a Natural Science or an elective credit in the DTA.

Humanities & Social Sciences

- The [standard Natural Resources DTA pathway](#) is mapped to the humanities and social science courses that are generally required/recommended for bachelor's degrees in natural resource fields. However, Running Start students will need to first prioritize their high-school graduation requirements.
- Within the high-school requirements, topics that support natural resource fields include **government**, **Indigenous focused (literature, studies, history)**, **economics**, and **geography**. However, it is okay to select topics that interest you, as these fields of study are supportive in ways that go beyond the specific topics.

Electives

- Students should take courses specific to natural resources if possible. These include **Intro to Fisheries Sci and Mgmt. (ENVS230)**, **Forest Health and Ecology (NATR160)**, **Intro. to Natural Resources (NATR103)**, **Society & Natural Resources (NATR235)**, **Intro to Stream Ecology (ENVS170)**, **Salmon, Ecosystems, and Society (BIOL103)**, and **Introduction to GIS (GEOG 215)**.
- Students should select courses that help them develop basic technology skills if needed. These include **Word Processing I (BCT 120)**, **Computer Applications (BCT 105)**, **Spreadsheets (BCT130)**.
- Soft-skills are critical in natural resources. Classes like **Interpersonal Communication (CMST&210)** and **Project Management (BCT284)** are recommended.

Equivalency Recommendations | WHS

WHS/WVC Equivalencies Class of 2023 +

Junior English (Take ONE)	Senior English (Take ONE)	
<input type="checkbox"/> ENGL 111 - Intro to Literature <input type="checkbox"/> ENGL 113 - Intro to Poetry <input type="checkbox"/> AIIS 203 - Intro to American Indigenous Literature <input type="checkbox"/> ENGL 226 - British Literature <input type="checkbox"/> ENGL 240 - Survey of World Literature <input type="checkbox"/> ENGL 245 - 20th Century World Literature <input type="checkbox"/> ENGL 247 - Multicultural Literature <input type="checkbox"/> ENGL 250 - Survey of American Literature	<input type="checkbox"/> ENGL 100 - Writing in the Workplace <input type="checkbox"/> ENGL 101 - English Composition <input type="checkbox"/> ENGL 111 - Intro to Literature <input type="checkbox"/> ENGL 112 - Intro to Fiction <input type="checkbox"/> ENGL 135 - Creative Writing <input type="checkbox"/> ENGL 201 - Composition: Advanced Essay <input type="checkbox"/> ENGL 202 - Composition Critical Analysis <input type="checkbox"/> ENGL 203 - Composition: Research <input type="checkbox"/> ENGL 215 - Fantasy Fiction <input type="checkbox"/> ENGL 226 - British Literature <input type="checkbox"/> ENGL 240 - Survey of World Literature <input type="checkbox"/> ENGL 245 - 20th Century World Literature <input type="checkbox"/> ENGL 247 - Multicultural Literature <input type="checkbox"/> ENGL 250 - Survey of American Literature	
Junior US History (Take ONE)	CTE	
<input type="checkbox"/> HIST 146 - US History I <input type="checkbox"/> HIST 147 - US History II <input type="checkbox"/> HIST 202 - American Constitution <input type="checkbox"/> HIST 215 - Women in US History <input type="checkbox"/> HIST 219 - Native American History <input type="checkbox"/> AIIS 209 - Native American History to 1815 <input type="checkbox"/> AIIS 210 - Native American Hist 1815 - Present <input type="checkbox"/> CHST 112 - Chicano/a History: An American Journey	<input type="checkbox"/> ACCT 102 - Practical Accounting I <input type="checkbox"/> ACCT 103 - Practical Accounting II <input type="checkbox"/> ASL 121 - American Sign Language I <input type="checkbox"/> ASL 122 - American Sign Language II <input type="checkbox"/> BCT 105 - Computer Applications <input type="checkbox"/> BCT 120 - Word Processing <input type="checkbox"/> BCT 205 - Business Communications <input type="checkbox"/> CJ 240 - Introduction to Forensics	
Senior Civics (Take ONE)	Science (3) Any WVC Science Course 100 level or above	VAPA (2) Art, Music, or Theater Class 100 Level or above
<input type="checkbox"/> BUS 201 - Business Law <input type="checkbox"/> CJ 101 - Intro to Criminal Justice <input type="checkbox"/> POLS 101 - Intro to Political Science <input type="checkbox"/> POLS 202 - American Government <input type="checkbox"/> POLS 203 - International Relations <input type="checkbox"/> POLS 206 - State and Local Politics	<input type="checkbox"/> See PYD	<input type="checkbox"/> Choose any
World History CWI *Usually taken Sophomore year*		
<input type="checkbox"/> GEOG 102 - World Regional Geography <input type="checkbox"/> SOC 201 - Social Problems		
Health (.5)	Physical Education (1.5) Requires Physical Activity	
<input type="checkbox"/> PEH 180 - Personal Wellness Choose any <input type="checkbox"/> PEH 181 - Personal Health & Wellness	<input type="checkbox"/> PEH 104 - Body Conditioning: Weight Training <input type="checkbox"/> PEH 111 - Yoga and Barre Fitness <input type="checkbox"/> PEH 123 - Yoga and Pilates <input type="checkbox"/> PEH 262 - Fitness Lab Choose any	
Financial Literacy		
<input type="checkbox"/> MATH 107 - Math in Society		

5 WVC Credits = 1 Credit WHS
 2 or 3 WVC Credits = .50 Credit WHS
 1 WVC Credit = .25 Credit WHS

Recommendations are highlighted in each category. Refer to [Planning Your Degree \(PYD\)](#) in this packet for detailed information.

Equivalency Recommendations | Eastmont



Running Start Equivalents



First Name _____
Date _____

Last Name _____
Class of _____

Junior English

English 101 Comp: General

AND one more

English 135 Creative Writing

English 111 Intro to Lit

English 112 Intro to Fiction

English 113 Intro to Poetry

Senior English (Take one)

English 201 Comp: Adv Essay

English 202 Comp: Crit Analysis

English 203 Comp: Research

AND one more

English 215 Fantasy Fiction

English 226 British Fiction

English 240 World Lit

English 250 American Lit

Jr. Soc Stud (Take BOTH)

History 146 US Hist 1

History 147 US Hist 2

Senior Soc Stud (Take ONE)

POLS 101 Intro to Poly Sci

POLS 202 American Govt

AND one more

BUS 101 Intro to Business

BUS 201 Business Law

ECON 101 Intro to Economics

ECON 201 Micro Economics

ECON 202 Macro Economics

POLS 203 International Relat

POLS 205 Cont. World Prob

POLS 206 State & Loc. Govt

PSYCH 100 General Psychology

SOC 101 Intro to Sociology

SOC 201 Social Problems

History (any)

Math (3.0)

MATH > _____

100 Level _____

Science (3.0)

AGRI 261 Plant Science

AGRI 263 Soils

ASTR 101 Intro Astronomy

PEH 288 Anat Kinesiology

Biology _____

Chemistry **See PYD**

Geology _____

Meteorology _____

Physics _____

PE (1.5)

Activity _____

classes _____

only _____

Health (.5)

NUTR 101 Nutrition

PEH 181 Health & Wellness

PEH 182 1st Aid: Emergen

Fine Art (2.0)

Art _____

Music _____

Theater _____

CTE/VOC (1.0)

ACCT 102 Pract. Accounting

AGR 101 Intro Agriculture

AGR 108 Intro Horticulture

ECED 105 Intro Early Child Ed

ECED 107 Health Safety Nutr

ECED 120 Prac: Nurt Relation

ENGR 102 Eng Graphics Des

ENGR 105 Comp Aided Des

WELD 128 Basic Welding

World Lang. (2.0)

Social Studies

HIST 214 PNW (WA History)

GEOG 100 Geography

HIST 118 West. Civ 3 (World)

Electives

Additional Requirements

HSBP _____

Grad Pathway _____

NOTES

Version 2/20/2024

Recommendations are highlighted in each category. Refer to [Planning Your Degree \(PYD\)](#) in this packet for detailed information.

Equivalency Recommendations | Omak Area Schools

Subject	Brewster	Lake Roosevelt	Liberty Bell	Okanogan	Omak	Oroville	Pateros	Tonasket	
								2023 GRAD	2024 GRAD
English 11	Eng 101	Eng 101	Eng 101 & Eng 250 or Hum 101	Eng 101	Eng 101	Eng 101	Eng 101	Eng 101	ENGL 101 & ENGL 250 or HUM 101
English 12	Eng 201, 202, 203 or 235	Eng 201, 202 or 203	Eng 201 or Eng 202 & one of these three: Eng 111, 112, 203	Eng 201, 202 or 203	Eng 201, 202 or 203	any other ENG	Eng 201, 202, or 203	Eng 201, 202 or 203	ENGL 201 or 202 & ENGL 112 or ENGL 203
US History WA History (214)	Hist 146 or 147 <small>Choose any</small>	Hist 146 or 147 & Pols 202, 203, 206	Hist 146 or 147 or Pols 202	Hist 146 or 147	Hist 214 & Hist 146 or 147	Hist 146 or 147	Hist 146 or 147	Hist 146 or 147	Hist 146 or 147 or POLS 202
Science	Lab class	Lab class	Lab Class	Lab class	Lab class	Lab class	Lab class	Lab class	Bio 100 or Chem 121
CWP	Pols 202, 203, 205 or 206 <small>Choose any</small>	Future Liv: Soc 101, 135 Pol 202, 206 or any Anthro <small>See PYD</small>	ANY TWO: Anth 100, Econ 101, Geog 100, Psyc 245, Pols 203, Phil 211, Soc 201	any Pols 101, 202, 206	Pols 202 or 206	Pols 202, 206 or any 2: Econ 101, 201 Pols 203, Geog 100, Anthro 100	POLS 101 or higher	Pols 202, 203 or 206	Any two: Anth 100, Econ 101, Econ 201, Pols 203,
Occupational Ed	Must be approved by BHS (Bus, Agri, BCT) <small>See PYD</small>	BCT 105 or Bus	SDS 101 required & BCT, Psyc 100, 200 or SOC 201	BCT or Acct & Econ 101 (req.)	BCT, Bus or Acct	any Acct, Bus, or Bct			BCT 105 & SDS 101 (1st year)
Health	PEH 180 or 181 <small>Choose any</small>	PEH 180 or 181	PEH 180, 181 or Nutri 101	PEH 180 or 181	PEH 180	PEH 181	PEH 181	PEH 180	PEH 180 or PEH 181 or Nutri 101
PE	any performance: 101-162 <small>Choose any</small>	any PEH		any PEH (5 cr)	Any PEH Activity	Any PEH	any PEH	PEH 181	
Math	Math 107 or above	Math 107 or above		Math 107 or above or Acct	Math 107 or above	Math 107 or above	Math 107 or above	Math 107 or above	
Arts	any performance Art <small>Choose any</small>	any Art	any Art, Mus or Theater	any Art or Drama	any Art or Theater	any Art or Drama	any Art	any Art, Music, Theater	any Art, Music, Theater
	4/30/2021	6/8/2021	3/21/2019	11/2/2021	4/27/2021	6/8/2021	4/28/2021	approved 5/5/22	

Recommendations are highlighted in each category. Refer to [Planning Your Degree \(PYD\)](#) in this packet for detailed information.

Standard Recommendations for Natural Resources DTA (90 Credits)

WRITING and QUANTITATIVE SKILLS | 15 Credits

WRITING (10 credits)	QUANTITATIVE/SYMBOLIC (5 credits)
ENGL& 101: Composition	MATH& 146: Intro to Statistics (recommended)
ENGL& 235: Technical Writing (recommended)	-or- MATH& 107: Math in Society
-or- ENGL 202 (Analysis) or ENGL 203 (Research)	-or- other quant./sym. course from AAS-DTA requirements

HUMANITIES & SOCIAL SCIENCES | 30 Credits

HUMANITIES (15 credits)	Students may select any courses here that meet the humanities requirements for an AAS-DTA. The courses listed here provides the best match to the knowledge, skills, & abilities a natural resource professional needs as well as those classes that will best prepare a student for transfer to a natural resource related major at a four-year institution.
CMST& 210: Interpersonal Communication	
PHIL& 115: Critical Thinking (recommended)	
-or- other humanities from AAS-DTA requirements	
AIS 203: Introduction to AIS Literature [D]	
-or- other humanities from AAS-DTA requirements	

SOCIAL SCIENCES (15 credits)	Students may select any courses here that meet the social science requirements for an AAS-DTA. The courses listed here provide the best match to the knowledge, skills, & abilities a natural resource professional needs as well as those classes that will best prepare a student for transfer to a natural resource related major at a four-year institution.
GEOG 215: Introduction to GIS	
-or- other Soc. Sci from AAS-DTA requirements	
ECON 202: Macro Economics	
-or- other Soc. Sci from AAS-DTA requirements	
AIS 103: The Indigenous Pacific Northwest [D]	
-or- ANTH 220: Cross-Cultural Studies	
-or- SOC& 101: Introduction to Sociology	
-or- other Soc. Sci from AAS-DTA requirements	

NATURAL RESOURCES, NATURAL SCIENCES, & ELECTIVES | 45 Credits

NATURAL RESOURCES, NATURAL SCIENCES, & ELECTIVES (45 Credits)	<p>Natural Resources is a science-based field of study. Accordingly, the course selections here <u>exceed</u> the natural sciences requirement for the AAS-DTA.</p> <p>The courses listed here provide the best match to the knowledge, skills, & abilities a natural resource professional needs as well as those classes that will best prepare a student for transfer to a natural resource related major at a four-year institution.</p> <p>The DTA requires 15 credits of natural science. These must be from three different areas and at least one must have a lab. Courses designated with the * are natural sciences, ** are natural sciences with a lab.</p> <p>By AAS-DTA requirements, no more than 15 credits of courses designated as restricted electives (RE) should be taken.</p>
BIOL& 211: Majors Cellular**	
BIOL& 212: Majors Plants**	
BIOL& 213: Majors Animals**	
ENVS 170: Intro to Stream Ecology**	
-or- BIOL& 221: Majors Ecology/Evolution*	
BIOL 103: Salmon, Ecosystems, and Society [D]	
ENVS 230: Intro to Fisheries Sci and Mgmt.	
-or- NATR 160: Forest Health and Ecology (RE)	
CHEM& 121: Introduction to Chemistry (recommended)	
-or- CHEM& 110: Chemical Concepts	
NATR 235: Society and Natural Resources (RE)	
BIOL 125: Environmental Science** (recommended)	
-or- BCT 284: Project Management (RE)	
-or- BCT 130: Spreadsheets (RE)	
-or- other BIOL, ENVS, NATR or MATH course	
-or- other course related to career/major goal	

The Natural Resources DTA pathway is a curated pathway mapped to the existing Associates of Arts and Sciences DTA (AAS-DTA) requirements. Students completing this pathway have significant flexibility in their course selections as they only need to meet the AAS-DTA requirements to earn the WVC credential.

Running Start students will generally need to make substitutions to the courses outlined to fit the high school requirements. As high school students, they also have different factors they may want to consider and should work closely with their College Navigator to make a plan that fits their individual needs.

Rational: Standard Recommendations for Natural Resources DTA

	Course Recommendation	Degree Requirement(s)	Rational for Recommendation
Writing	ENGL& 101: Composition	Writing	Required for all DTA degrees
	ENGL& 235: Technical Writing (recommended)		
	-or- ENGL 202 (Analysis) or ENGL 203 (Research)		
Quantitative	MATH& 146: Intro to Statistics	Quantitative	High-value KSA, Major-ready for transfer
	-or- MATH& 107: Math in Society		KSA
	-or- other quant./sym. from AAS-DTA requirements		
Humanities	CMST& 210: Interpersonal Communication	Humanities	High-value KSA, Major-ready for transfer
	PHIL& 115: Critical Thinking (recommended)	Humanities - Philosophy	KSA - Soft Skills
	-or- other humanities from AAS-DTA requirements	Humanities - Area varies by course	
	AIIS 203: Introduction to AIIS Literature [D]	Humanities - AIIS	KSA
	-or- other humanities from AAS-DTA requirements	Humanities - Area varies by course	
Social Science	GEOG 215: Introduction to GIS	Social Science - Geography	High-value KSA
	ECON& 202: Macro Economics (recommended)	Social Science - Economics	KSA, Major-ready for transfer
	-or- other Soc. Sci. from AAS-DTA requirements	Social Science - Area varies by course	
	AIIS 103: The Indigenous Pacific Northwest [D]	Social Science - AIIS; Diversity	KSA
	-or- ANTH 220: Cross-Cultural Studies	Social Science – Anthropology	KSA
	-or- SOC& 101: Introduction to Sociology	Social Science - Sociology	KSA
	-or- other Soc. Sci. from AAS-DTA requirements	Social Science - Area varies by course	
Natural Science & Electives	BIOL& 211: Majors Cellular	Natural Science - General - Lab	KSA, Major-ready for transfer
	BIOL& 212: Majors Plants	Natural Science - Botany - Lab	High-value KSA, Major-ready for transfer
	BIOL& 213: Majors Animals	Natural Science - Zoology - Lab	High-value KSA, Major-ready for transfer
	ENVS 170: Introduction to Stream Ecology	Natural Science - Environment	High-value KSA
	BIOL 103: Salmon, Ecosystems, and Society [D]	Natural Science - Environment; Diversity	High-value KSA, Diversity requirement
	ENVS 230: Intro to Fisheries Sci and Mgmt.	Elective	High-value KSA
	-or- NATR 160: Forest Health and Ecology (RE)	Restricted Elective	High-value KSA
	CHEM& 121: Introduction to Chemistry (recommended)	Natural Science - Chemistry - Lab	High-value KSA, Major-ready for transfer
	-or- CHEM& 110: Chemical Concepts		KSA
	NATR 235: Society and Natural Resources (RE)	Restricted Elective	High-value KSA
	BIOL 125: Environmental Science** (recommended)	Natural Science - Environment - Lab	High-value KSA
	-or- BCT 284: Project Management (RE)	Restricted Elective	KSA depending on course selection
	-or- BCT 130: Spreadsheets (RE)		
-or- other BIOL, ENVS, NATR or MATH course			
	-or- other course related to career/major goal	Varies by course selection	

KSA = Knowledge, Skill, and/or Ability

The Natural Resources DTA is a curated pathway mapped to the existing Associate of Arts & Sciences Direct Transfer Agreement (DTA) requirements. Students completing this pathway have significant flexibility in their course selection, as they only need to meet the general DTA requirements.