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.

Inside this Packet

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.

WHS/WVC Equivalencies
Class of 2023 +

Junior English (Take ONE)

- ☐ ENGL 111 - Intro to Literature
- ☐ ENGL 113 - Intro to Poetry
- ☐ AIIS 203 - Intro to American Indigenous Literature
- ☐ ENGL 226 - British Literature
- ☐ ENGL 240 - Survey of World Literature
- ☐ ENGL 245 - 20th Century World Literature
- ☐ ENGL 247 - Multicultural Literature
- ☐ ENGL 250 - Survey of American Literature

Junior US History (Take ONE)

- ☐ HIST 146 - US History I
- ☐ HIST 147 - US History II
- ☐ HIST 202 - American Constitution
- ☐ HIST 215 - Women in US History
- ☐ HIST 219 - Native American History
- ☐ AIIS 209 - Native American History to 1815
- ☐ AIIS 210 - Native American Hist 1815 - Present
- ☐ CHST 112 - Chicano/a History: An American Journey

Senior Civics (Take ONE)

- ☐ BUS 201 - Business Law
- ☐ CJ 101 - Intro to Criminal Justice
- ☐ POLS 101 - Intro to Political Science
- ☐ POLS 202 - American Government
- ☐ POLS 203 - International Relations
- ☐ POLS 206 - State and Local Politics

World History | CWI
Usually taken Sophomore year

- ☐ GEOG 102 - World Regional Geography
- ☐ SOC 201 - Social Problems

Health (.5)

- ☐ PEH 180 - Personal Wellness   Choose any
- ☐ PEH 181 - Personal Health & Wellness

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

Senior English (Take ONE)

- ☐ ENGL 100 - Writing in the Workplace
- ☐ ENGL 101 - English Composition
- ☐ ENGL 111 - Intro to Literature
- ☐ ENGL 112 - Intro to Fiction
- ☐ ENGL 135 - Creative Writing
- ☐ ENGL 201 - Composition: Advanced Essay
- ☐ ENGL 202 - Composition Critical Analysis
- ☐ ENGL 203 - Composition: Research
- ☐ ENGL 215 - Fantasy Fiction
- ☐ ENGL 226 - British Literature
- ☐ ENGL 240 - Survey of World Literature
- ☐ ENGL 245 - 20th Century World Literature
- ☐ ENGL 247 - Multicultural Literature
- ☐ ENGL 250 - Survey of American Literature

CTE

- ☐ ACCT 102 - Practical Accounting I
- ☐ ACCT 103 - Practical Accounting II
- ☐ ASL 121 - American Sign Language I
- ☐ ASL 122 - American Sign Language II
- ☐ BCT 105 - Computer Applications
- ☐ BCT 120 - Word Processing I
- ☐ BCT 205 - Business Communications
- ☐ CJ 240 - Introduction to Forensics

Science (3) Any WVC Science Course 100 level or above	VAPA (2) Art, Music, or Theater Class 100 Level or above
☐ _____ See PYD _____	☐ _____ Choose any _____

Physical Education (1.5) Requires Physical Activity

- ☐ PEH 104 - Body Conditioning: Weight Training
- ☐ PEH 111 - Yoga and Barre Fitness
- ☐ PEH 123 - Yoga and Pilates
- ☐ PEH 262 - Fitness Lab   Choose any

Financial Literacy

- ☐ MATH 107 - Math in Society

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

Running Start Equivalents

EASTMONT · **WENATCHEE VALLEY COLLEGE**

First Name _____ Last Name _____
Date _____ 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	☐

NOTES
_____
_____
_____
_____
_____
_____
_____
_____

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	☐

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	Tonasket 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) *Choose any*	Hist 146 or 147	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 *See PYD*	Lab class	Lab class	Lab Class	Lab class	Lab class	Lab class	Lab class	Lab class	Bio 100 or Chem 121
CWP *Choose any*	Pols 202, 203, 205 or 206	Future Liv: Soc 101, 135 Pol 202, 206 or any Anthro	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 *See PYD*	Must be approved by BHS (Bus, Agri, BCT)	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, Acct, Bus		BCT 105 & SDS 101 (1st year)
Health *Choose any*	PEH 180 or 181	PEH 180 or 181	PEH 180, 181 or Nutr 101	PEH 180 or 181	PEH 180	PEH 181	PEH 181	PEH 180	PEH 180 or PEH 181 or Nutri 101
PE *Choose any*	any performance: 101-162	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 *Choose any*	any performance Art	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)	
CMST& 210: Interpersonal Communication	**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.
PHIL& 115: Critical Thinking (recommended)	
-or- other humanities from AAS-DTA requirements	
AIIS 203: Introduction to AIIS Literature [D]	
-or- other humanities from AAS-DTA requirements	

SOCIAL SCIENCES (15 credits)	
GEOG 215: Introduction to GIS	**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.
-or- other Soc. Sci from AAS-DTA requirements	
ECON 202: Macro Economics	
-or- other Soc. Sci from AAS-DTA requirements	
AIIS 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

BIOL& 211: Majors Cellular**	**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.**
BIOL& 212: Majors Plants**	
BIOL& 213: Majors Animals**	
ENVS 170: Intro to Stream Ecology**	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.
-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)	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.
-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)	By AAS-DTA requirements, no more than 15 credits of courses designated as restricted electives (RE) will count toward the degree.
-or- other BIOL, ENVS, NATR or MATH course	
-or- other course related to career/major goal	

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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
	BIOL 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	Varies by course selection	
	-or- other course related to career/major goal		

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.