



Transfer Guide: Natural Resources

<http://www.forestry.oregonstate.edu/academic-programs/undergraduates/natural-resources>

Natural Resources Core Requirements (Complete one course from each category)	OSU Course	TVCC Course (and courses available online from OSU)
Animal ID	FW 312. Systematics of Birds FW 316. Systematics of Fishes FW 318. Systematics of Mammals Z 477. Aquatic Entomology	Available Online Available Online
Atmospheric Science	ATS 201. *Climate Science ATS 320. *The Changing Climate GEOG 323. *Climatology SUS 103. * Introduction to Climate Change	Available Online Available Online Available Online Available Online
Biology I	BI 204* (or BI 101 or BI 211)	BIOL 101 or 211
Biology II	BI 205* (or BI 102 or BI 212)	BIOL 102 or 212
Biology III	BI 206* (or BI 103 or BI 213)	BIOL 103 or 213
Chemistry	CH 121 or CH 231* and CH 261*	CHEM 121 or CHEM 221
Communications	COMM 321. Introduction to Communication Theory COMM 322. Small Group Problem-Solving COMM 328. Nonverbal Communication COMM 385. Communication and Culture in Cyberspace COMM 440. Theories of Conflict and Conflict Management COMM 442. Bargaining and Negotiation Processes FES 360. Collaboration and Conflict Management FES 485. *Consensus and Natural Resources FES 493. Environmental Interpretation NR 312. Critical Thinking for Natural Resource Challenges	Available Online Available Online Available Online Available Online Available Online Available Online
Earth Science	TVCC Course: GEOG 101. Physical Geology GEO 101. *The Solid Earth GEO 102. *The Surface of the Earth GEO 201. *Physical Geology GEO 202. *Earth Systems Science GEO 221. *Environmental Geology	GEOG 101 GEOL 202 GEOL 201
Environmental Assessment and Planning	FES 456. Planning for Sustainable Recreation FES 457. Planning for Sustainable Tourism FES 485. *Consensus and Natural Resources FES/FW 445. Ecological Restoration FW 435. *Wildlife in Agricultural Ecosystems GEOG 450. Land Use in the American West PS 449. *Topics in Comparative Politics PS 477. International Environmental Politics and Policy RNG 421. Wildland Restoration and Ecology RNG 490. Rangeland Management Planning SUS 304. *Sustainability Assessment SUS 350. *Sustainable Communities	Available Online Available Online Available Online Available Online Available Online Available Online Available Online Available Online Available Online Available Online
General Ecology	TVCC Course: NATR 221 BI 370. Ecology BOT 341. Plant Ecology FES 240. *Forest Biology FES 341. Forest Ecology	NATR 221 Available Online Available Online Available Online Available Online

GIS	TVCC Course: GEOG 265 or 285 FE 257. GIS and Forest Engineering Applications FW 303. Survey of Geog. Info. Systems in Natural Resources GEOG 201. *Foundations of Geospatial Science & GIS GEOG 360. Geographic Information Systems & Theory CROP/HORT 414. Information Systems in Agriculture	GEOG 265 or 285 Available Online Available Online Available Online Available Online Available Online
Managing Natural Resources for the Future	NR 201. Managing Natural Resources for the Future	NATR 111 or 201
Mathematics	MTH 112. *Elementary Functions MTH 241. *Calculus for Management and Social Science MTH 245. *Mathematics for Management, Life & Social Sciences MTH 251. *Differential Calculus	MTH 112 MTH 241 Available Online MTH 251
Biological/Physical Science Measurements OR	TVCC Course: NATR 105 BI 371. *Ecological Methods BOT 440. Field Methods in Plant Ecology FE 208. Forest Surveying FOR 321. Forest Mensuration FW 255. Field Sampling of Fish and Wildlife GEOG 452. Sustainable Site Planning NR 325. Scientific Methods for Analyzing NR Problems RNG 441. Rangeland Analysis	NATR 105 Available Online Available Online Available Online Available Online
Social Science or Measurements	FES 422. Research Methods in Social Science	
Natural Resource Decision Making	NR 455. Natural Resource Decision Making	Available Online
Natural Resource Policy	AEC 454. Rural Development Economics & Policy FOR 460. *Forest Policy FOR 462. Natural Resource Policy and Law GEOG 340/SOIL 335. *Introduction to Water Science and Policy PS 475. Environmental Politics and Policy PS 477. International Environmental Politics and Policy	Available Online Available Online Available Online Available Online
Resource Economics	AEC 351. *Natural Resource Economics and Policy AEC/ECON 352. *Environmental Economics and Policy AEC 454. Rural Development Economics & Policy FES 432. Economics of Recreation Resources FOR 330. Forest Conservation Economics	Available Online Available Online Available Online
Society & Natural Resources	ANTH 110. *Introduction to Cultural Anthropology FES 251. Recreation Resource Management FES 354. Communities, Natural Areas, and Sustainable Tourism FES 355. Management for Multiple Resource Values GEOG 240. *Climate Change, Water, and Society	ANTH 110 NATR 251
Soil Science	CSS 205. *Soil Science or CSS 305. Principles of Soil Science or SOIL 205. *Soil Science and SOIL/FOR 206. * Soils Lab	CSS 205
Statistics	ST 201. Principles of Statistics ST 351. Introduction to Statistical Methods	MTH 243
Vegetation ID	TVCC Course: NATR 103 BOT 321. Plant Systematics BOT 414. Agrostology BOT 425. Flora of the Pacific Northwest FES 241. Dendrology HORT 226. Landscape Plant Mat I: Decid Hardwoods & Conifers HORT 228. Landscape Plant Mat II: Spring Flower Trees and Shrubs RNG 353. Wildland Plant Identification	NATR 103 Available Online Available Online Available Online
Water Science	TVCC Course: NATR 217 FE 430. Watershed Processes FW 326. Integrated Watershed Management OC 201. *Oceanography OC 332. Coastal Oceanography RNG 355. Desert Watershed Management	NATR 217 Available Online Available Online Available Online Available Online

Natural Resources Breadth Requirements (Complete one course from each category)	OSU Course (must be upper-division)	Transfer Course
Fish & Wildlife		
Forestry		
Land & Water		
Political Dimensions		
Range	RNG 341. Rangeland Ecology & Management	NATR 241
Resource Values/Philosophy		
Social Issues		

Natural Resources Specialty Option
All students must complete an option. Options generally require at least 40 credits (of which, 20+ must be upper-division coursework). Courses from the NR Core and NR Breadth can not be used in the option. Some TVCC coursework may apply to the option – consult an OSU NR Advisor for planning purposes.

Transfer students should expect to complete upper-division course requirements at OSU. The entire degree can be completed online. In addition to courses that fulfill the Natural Resources major requirements, students should be completing courses to fulfill [OSU's Baccalaureate Core](#) (general education curriculum). Major requirements that fulfill Baccalaureate Core are marked with an asterisk (*).

OSU Baccalaureate Core (Complete one course from each category)	OSU Course	Transfer Course – Consult: http://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-treasure-valley-community-college
Writing I	WR 121 English Composition	WR 121
Writing II	WR 327 Technical Writing	WR 227
Speech	COMM 111 Public Speaking or COMM 114 Argument & Critical Discourse	SP 111 or SP 112
Mathematics	MTH 111 or higher	MTH 111 or higher
Fitness	HHS 231 Lifetime Fitness for Health HHS 241 Lifetime Fitness	HPE 295
Physical Science with Lab	SOIL 205 & SOIL 206	CSS 205 (also fulfills major requirement)
Biological Science with Lab	BI 101 or 211	BI 101 or 211 (also fulfills major requirement)
Additional Science with Lab	CH 231 & 261	GEOL 201 or 202 (also fulfills major requirement)
Western Culture	Choose one course	
Cultural Diversity	Choose one course	
Literature & Arts	Choose one course	
Social Processes & Institutions	ECON 201 recommended	EC 201 recommended
Difference, Power, Discrimination	Choose one course	Can be fulfilled by major requirement – consult advisor
Contemporary Global Issues	Upper-division course required	Can be fulfilled by major requirement – consult advisor
Science, Technology, Society	Upper-division course required	Can be fulfilled by major requirement – consult advisor
Writing Intensive Course – major specific	Upper-division course required	Can be fulfilled by major requirement – consult advisor

Sample Four-Year Plan

First Year	TVCC Associate of Science in Natural Resources – Year one <i>Select Distribution Requirements and Electives that align with OSU's Baccalaureate Core and NR major requirements. Contact an OSU NR Advisor to begin planning transfer courses.</i>			
Second Year	TVCC Associate of Science in Natural Resources – Year Two <i>Select Distribution Requirements and Electives that align with OSU's Baccalaureate Core and NR major requirements. Apply for transfer admission to OSU at least 3 months prior to starting courses</i>			
Third Year	OSU Bachelor of Science in Natural Resources – Distance Education			
	FALL: Animal ID Core Resource Econ Core Res. Values & Phil. Breadth Option Course	WINTER: Atmospheric Science Core Fish & Wildlife Breadth Social Issues Breadth Option Course	SPRING: Communication Core Forestry Breadth Option Course Option Course	SUMMER:
Fourth Year	OSU Bachelor of Science in Natural Resources – Distance Education			
	FALL: NR 455 NR Policy Core/WIC Option Course Option Course	WINTER: Env. Assmt. Core/Bacc Core Political Dimensions Breadth Option Course Option Course	SPRING: Land & Water Breadth Range Breadth Option Course Option Course	SUMMER:

This is a SAMPLE plan. Individual student's plans will vary based upon course availability, completion of prerequisites, and the specialty option selected.

This timeline assumes that:

- students are taking full-time credit loads (average of 15 credits) each quarter
- students select TVCC courses that are transferrable to OSU and align with degree requirements

In order to complete the Natural Resources degree in four years, students must work closely with TVCC and OSU Academic Advisors to plan courses efficiently. While it is possible to complete the full program in four years, it is uncommon. Most Distance Education NR students complete the degree in about five years.

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