CASCADIA COLLEGE
BOTHELL · OUR COMMUNITY'S COLLEGE

Environmental Technologies and Sustainable Practices
Associate in Applied Science-Transfer
92-93 credits

The associate in applied science (AAS) degree in Environmental Technologies and Sustainable Practices (ETSP) presents both the practical and scientific basis for measuring, monitoring, and recommending actions to optimize the production, delivery, and use of resources.

The ETSP Degree from Cascadia provides industry-specific knowledge and professional skills that are vital to staking a claim in the emerging green economy. Governments and businesses in this state and around the world are looking for professionals who can "pioneer innovative pathways" as we rethink and redesign how we consume resources; students in this program will have the chance to be a part of that as professional practitioners as well as in roles as informed consumers and political citizens.

Upon successful completion of this degree a student will be able to:
- Understand patterns and make connections among different disciplines and schools of knowledge and to integrate studies with personal experience
- Learn actively and gain comprehensive understanding; to think critically, creatively, and reflectively in order to solve problems; to communicate with clarity and originality for personal growth and productive work; and to interact in diverse and complex environments and complicated, dynamic, and ambiguous situations
- Address savings and spending using terms and tools applicable in the commercial arena
- Design and execute environmentally sensitive and sustainable practices

GENERAL EDUCATION CORE COURSES   15 CREDITS

Communication:

Course ID	Course Name	Lec	Lab	Other	Credits
ENGL&101	English Composition I	55			5.0
ENGL& 235	Technical Writing	55			5.0

Quantitative or Symbolic Reasoning:

Course ID	Course Name	Lec	Lab	Other	Credits
MATH&107, or above	Math in Society, or above	55			5.0

PROGRAM REQUIREMENTS   45 CREDITS

Course ID	Course Name	Lec	Lab	Other	Credits
ETSP 101	Intro to Environmental Technology and Sustainable Practices	55			5.0
ETSP 110	Power Generation and Energy Systems	55			5.0
ETSP 145	Onsite Alternative Energy Generation	55			5.0
ETSP 160	Electromechanics Lab	33	44		5.0
ETSP 170	Water Quality and Conservation	55			5.0
ETSP 201	Environmental Regulations and Compliance	55			5.0

Course ID	Course Name	Lec	Lab	Other	Credits
ETSP 203	Energy System Analysis and Auditing	55			5.0
ETSP 204	Carbon Footprint and Sustainability Analysis	55			5.0
ETSP 270	Introduction to Wastewater Management	55			5.0

HUMANITIES / SOCIAL SCIENCES REQUIREMENTS 10 CREDITS

Course ID	Course Name	Lec	Lab	Other	Credits
BUS& 101, or BUS& 201, or PHIL 243, or PHIL 260	Introduction to Business, or Business Law, or Environmental Ethics and Sustainability, or Business Ethics	55			5.0
CMST 105, or ECON 151, or ECON 220, or POLS 206, or PSYC 251	Communication in Organizations, or Introduction to the Global Economy, or Economics of Energy, or State and Local Government Organizational Behavior	55			5.0

NATURAL SCIENCES REQUIREMENTS 10 CREDITS

Course ID	Course Name	Lec	Lab	Other	Credits
BIOL 120, or CHEM&121, or PHYS& 100	Survey of the Kingdoms, or Introduction to Chemistry, or Physics for Non-Science Majors	44, or 55	22, or 0		5.0
ENVS&101, or ENVS 150, or ENVS 210, or ENVS 220, or GEOG 120, or GEOG& 250, or GEOL&101, or OCEA& 100, or OCEA& 101	Intro to Environmental Science, or Themes and Methods in Env Science, or Ecology of the Puget Sound Bioregion, or Wetland Ecology and Conservation, or Introduction to Physical Geography, or Geography of the Pacific Northwest, or Introduction to Physical Geology, or Introduction to Oceanography Introduction to Oceanography with Lab	33, or 44, or 55	0, or 22, or 44		5.0

REQUIRED ELECTIVE CREDITS 12-13 CREDITS

Course ID	Course Name	Lec	Lab	Other	Credits
BIT 220	Project Management	55			5.0
ETSP 150, or ETSP 190 BIT 105	OSHA/WSHA for Electronic Trades, or Documenting and Reporting Energy Use Careers in Information Technology	22, or 33			2.0, or 3.0
ETSP 197, **or** ETSP 297	ETSP Work-based Learning I ETSP Work-based Learning II			Variable 55-275	5.0 total