

LANDSCAPE TECHNOLOGY

pcc.edu/programs/landscape-tech

CAREER AND PROGRAM DESCRIPTION

Prepare for entry level and supervisory work in landscape construction, landscape management, landscape design and environmental landscape management. In the construction area, students work with landscape contractors installing landscapes. Those specializing in management work primarily in maintaining existing landscapes both private and public. Landscape designers work with clients and contractors to produce residential design. Those specializing in environmental landscape management will work in sustainable landscape practices including bioswales, greenroofs and restoration. Upon application to the Landscape Contractors Board and presentation of transcripts and diploma, students completing the Associate of Applied Science Degree in Landscape Technology will be eligible to sit for the Landscape Contractors licensing exam.

The Landscape Technology AAS Degree courses are designed to develop knowledge and skills in plant care, plant identification, tree care, soils, irrigation, landscape business operations, estimating and bidding, and construction practices. With proper licensing and experience, many students establish their own business in construction, maintenance or design. Employment can include work with retail and wholesale nurseries, garden centers, landscape contractors, landscape designers, positions in landscape maintenance and gardening, and at landscape and horticultural suppliers. Students are prepared for landscape construction work including installing hardscapes, irrigation and drainage systems and planting. Students are also prepared for landscape management work including maintaining residential, estate, commercial and public properties, golf courses, private and public gardens, and parks.

The Landscape Technology Design AAS Degree courses are developed to build knowledge and skills in plant identification, soils, irrigation, site measurement and analysis, drafting and CAD. Students completing the curriculum will have the skills needed to produce landscape designs. Required landscape design courses meet the educational requirement for certification with the Association of Professional Landscape Designers. Students are prepared to work in the landscape design and construction field, performing services for residential and small commercial projects. They may work for landscape contractors, landscape designers, or be self employed.

The Environmental Landscape Management Technology AAS Degree courses will develop skills and knowledge in Landscape Technology, Biology and Environmental Science to prepare students for careers working with natural resources and sustainable landscape technologies. Students who complete the degree will have a broad background in science and the technical skills to construct, maintain and monitor sustainable landscape systems such as bioswales, greenroofs and environmental restoration projects.

The Landscape Service Technician Certificate core of courses in the first year are designed to develop knowledge and skills in plant care, plant identification, soils, irrigation, basic landscape design and construction practices. Students successfully completing this curriculum may seek entry level positions with landscape companies and will have completed the educational requirement for applying a combination of education and work experience as qualifying to sit for the State of Oregon Landscape Contractors licensing exam. Students are prepared for entry level positions in sales, construction or maintenance at wholesale and retail nurseries, landscape installation companies, or landscape management companies. Credits earned through this degree apply to subsequent LAT certificates and degrees.

The Landscape Entry Level Certificate courses prepare students for entry level work in landscape management and/or construction.

Credits earned through this degree apply to subsequent LAT certificates and degrees.

Following the listed sequence of courses and entry into the program in the fall is recommended although not required by the program.

DEGREES AND CERTIFICATES OFFERED

ASSOCIATE OF APPLIED SCIENCE DEGREE

Landscape Technology
Landscape Technology: Design
Environmental Landscape Management Technology

LESS THAN ONE-YEAR CERTIFICATE

Arboriculture Career Pathway Certificate
Landscape Service Technician Career Pathway Certificate
Landscape Technology Entry Level Career Pathway Certificate

Academic Prerequisites

- None. See individual courses for prerequisites.

Academic Prerequisites

- None. See individual courses for prerequisites.

Academic Requirements

Requirements vary depending upon the degree or certificate. See following details:

- Landscape Technology AAS, Landscape Design AAS, Landscape Service Technician Certificate, and Landscape Technology Entry Level Career Pathways Certificate:
 - All LAT, HOR, CSS, and MSD courses must be completed for a grade of "C" or "P" or better.
- Environmental Landscape Management Technology AAS:
 - All LAT, HOR, CSS, BI, ESR, and MSD courses must be completed for a grade of "C" or "P" or better.

Non-Academic Prerequisites

- None

Non-Academic Requirements

- None

ASSOCIATE OF APPLIED SCIENCE DEGREE

Landscape Technology (p. 1)
Landscape Technology: Design (p. 2)
Environmental Landscape Management Technology (p. 3)

LANDSCAPE TECHNOLOGY AAS DEGREE

Minimum 90 credits. Students must also meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. Students must complete a total of four courses of General Education. Math/computation competency is met through the courses in the program of study indicated with a § symbol. Students should consult with program advisors for course planning.

Course of Study ²

The coursework listed below is required. The following is an example of a term-by-term breakdown.

| First Term | | Credits |
|-----------------------------|--|---------|
| LAT 101 | Introduction to the Landscape Industry | 2 |
| LAT 236 | Landscape Math § | 3 |
| Plant ID Electives | | 3 |
| General Education: 1 course | | |
| Second Term | | |
| CSS 200 | Soils and Plant Nutrition | 4 |

| | | |
|--------------------------------|--|----|
| LAT 115 | Tool and Equipment Safety, Operation and Maintenance | 3 |
| LAT 272 | Sustainable Landscaping | 3 |
| Plant ID Electives | | 3 |
| Third Term | | |
| LAT 102 | Plant Establishment and Maintenance | 3 |
| LAT 108 | Landscape Irrigation I | 3 |
| Plant ID Electives | | 3 |
| General Education: 1 course | | |
| Fourth Term | | |
| LAT 280A | Cooperative Education: Landscape ¹ | 3 |
| Landscape Technology Electives | | 3 |
| General Education: 2 courses | | |
| Fifth Term | | |
| LAT 106 | Plant Anatomy and Physiology | 4 |
| LAT 111 | Landscape Construction Practices | 3 |
| LAT 223 | Site Evaluation | 3 |
| Landscape Technology Electives | | 3 |
| Sixth Term | | |
| LAT 104 | Pesticides | 3 |
| LAT 240 | Tree Care | 3 |
| LAT 243 | Landscape Business Operations | 3 |
| LAT 264 | Landscape Estimating and Bidding | 3 |
| Seventh Term | | |
| LAT 224 | Grading and Drainage | 3 |
| LAT 250 | Plant Diseases, Insects and Weed Identification | 3 |
| LAT 276 | Employment & Careers in the Landscape Industry | 2 |
| Eighth Term | | |
| LAT 280A | Cooperative Education: Landscape | 3 |
| MSD 101 | Principles of Management and Supervision | 3 |
| Landscape Technology Electives | | 3 |
| Total Credits | | 90 |

§ Course cannot be substituted with another course.

¹ Students with one year documented work experience may take an additional 3 credits of General Education or landscape electives in place of cooperative work experience. Arrange with the landscape department chair.

² Most LAT classes are only offered once a year. First term corresponds to the fall term, second term to winter term, third term to spring term, and 4th term to summer term. Students may start the program at any time of the year. Please contact the LAT program advisor for more guidance.

LANDSCAPE TECHNOLOGY DEGREE ELECTIVES

| Code | Title | Credits |
|---------|----------------------------------|---------|
| HOR 226 | Plant Materials - Deciduous | 3 |
| HOR 227 | Plant Materials - Evergreens | 3 |
| HOR 228 | Plant Materials - Flowering | 3 |
| HOR 272 | Summer Annuals & Perennials | 3 |
| HOR 285 | Permaculture Design | 7 |
| HOR 290 | Introduction to Landscape Design | 3 |
| HOR 291 | Landscape Design III | 3 |
| LAT 103 | Beekeeping | 2 |

| | | |
|----------|--|---|
| LAT 109 | Plant Propagation | 3 |
| LAT 112 | The Nature of Green Infrastructure | 1 |
| LAT 214 | Landscape Design II | 3 |
| LAT 219 | Landscape Illustration | 3 |
| LAT 225 | Water Gardens | 3 |
| LAT 237A | Landscape Problem Solving-Fall | 1 |
| LAT 237B | Landscape Problem Solving-Winter | 1 |
| LAT 237C | Landscape Problem Solving-Spring | 1 |
| LAT 238 | Ecosystem-Based Landscaping Practices | 1 |
| LAT 242 | Arborist Tree Climbing | 3 |
| LAT 262 | Native Plants of Oregon | 3 |
| LAT 271 | Computer-Aided Landscape Design | 3 |
| LAT 275 | Introduction to Landscape Night Lighting | 3 |
| LAT 279 | Computer-Aided Landscape Design II | 3 |
| LAT 280C | Cooperative Work Experience-Landscape Design | 3 |

PLANT IDENTIFICATION ELECTIVES

| Code | Title | Credits |
|---------|------------------------------|---------|
| HOR 226 | Plant Materials - Deciduous | 3 |
| HOR 227 | Plant Materials - Evergreens | 3 |
| HOR 228 | Plant Materials - Flowering | 3 |
| HOR 272 | Summer Annuals & Perennials | 3 |
| LAT 262 | Native Plants of Oregon | 3 |

LANDSCAPE DESIGN AAS DEGREE

Minimum 96 credits. Students must meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. Students must complete a total of four courses of General Education. Math/computation competency is met through the courses in the program of study indicated with a § symbol. Students should consult with program advisors for course planning.

Course of Study ²

The coursework listed below is required. The following is an example of a term-by-term breakdown.

| Term | Course | Credits | |
|------------------------------|---|--|---|
| First Term | HOR 290 | Introduction to Landscape Design | 3 |
| | LAT 101 | Introduction to the Landscape Industry | 2 |
| | LAT 236 | Landscape Math [§] | 3 |
| | Plant ID Electives | | 3 |
| Second Term | | | |
| CSS 200 | Soils and Plant Nutrition | 4 | |
| LAT 271 | Computer-Aided Landscape Design | 3 | |
| LAT 272 | Sustainable Landscaping | 3 | |
| Plant ID Electives | | 3 | |
| Third Term | | | |
| LAT 102 | Plant Establishment and Maintenance | 3 | |
| LAT 108 | Landscape Irrigation I | 3 | |
| LAT 279 | Computer-Aided Landscape Design II | 3 | |
| Plant ID Electives | | 3 | |
| Fourth Term | | | |
| WR 121 | Composition I (WR121=WR121Z) ^Z | 4 | |
| or WR 122 | or Composition II (WR122=WR122Z) | | |
| or WR 227 | or Technical Writing (WR227=WR227Z) | | |
| Landscape Design Electives | | 3 | |
| General Education: 2 courses | | | |

| | | |
|-----------------------------|---|----|
| Fifth Term | | |
| LAT 106 | Plant Anatomy and Physiology | 4 |
| LAT 111 | Landscape Construction Practices | 3 |
| LAT 214 | Landscape Design II | 3 |
| LAT 223 | Site Evaluation | 3 |
| LAT 237A | Landscape Problem Solving-Fall | 1 |
| Sixth Term | | |
| HOR 291 | Landscape Design III | 3 |
| LAT 115A | Tools and Equipment Seminar | 2 |
| LAT 237B | Landscape Problem Solving-Winter | 1 |
| LAT 243 | Landscape Business Operations | 3 |
| LAT 264 | Landscape Estimating and Bidding | 3 |
| General Education: 1 course | | |
| Seventh Term | | |
| LAT 219 | Landscape Illustration | 3 |
| LAT 224 | Grading and Drainage | 3 |
| LAT 237C | Landscape Problem Solving-Spring | 1 |
| LAT 276 | Employment & Careers in the Landscape Industry | 2 |
| General Education: 1 course | | |
| Eighth Term | | |
| LAT 280C or LAT 280A | Cooperative Work Experience-Landscape Design ¹ or Cooperative Education: Landscape | 3 |
| Landscape Design Electives | | 3 |
| Total Credits | | 96 |

§ Course cannot be substituted with another course.

1 Students with one year documented work experience in landscape design may take an additional 3 credits of LAT elective courses in lieu of cooperative work experience. Arrange with landscape department chair.

2 Most LAT classes are only offered once a year. First term corresponds to the fall term, second term to winter term, third term to spring term, and fourth term to summer term. Students may start the program at any time of the year. Please contact the LAT program advisor for more guidance.

Z This course is part of Oregon Common Course Numbering. The following courses are equivalent:
 WR 121 and WR 121Z
 WR 122 and WR 122Z
 WR 227 and WR 227Z

LANDSCAPE DESIGN DEGREE ELECTIVES

| Code | Title | Credits |
|---------|--|---------|
| HOR 226 | Plant Materials - Deciduous | 3 |
| HOR 227 | Plant Materials - Evergreens | 3 |
| HOR 228 | Plant Materials - Flowering | 3 |
| HOR 272 | Summer Annuals & Perennials | 3 |
| HOR 285 | Permaculture Design | 7 |
| LAT 103 | Beekeeping | 2 |
| LAT 104 | Pesticides | 3 |
| LAT 109 | Plant Propagation | 3 |
| LAT 112 | The Nature of Green Infrastructure | 1 |
| LAT 115 | Tool and Equipment Safety, Operation and Maintenance | 3 |

| | | |
|---------|---|---|
| LAT 219 | Landscape Illustration | 3 |
| LAT 225 | Water Gardens | 3 |
| LAT 238 | Ecosystem-Based Landscaping Practices | 1 |
| LAT 240 | Tree Care | 3 |
| LAT 242 | Arborist Tree Climbing | 3 |
| LAT 250 | Plant Diseases, Insects and Weed Identification | 3 |
| LAT 262 | Native Plants of Oregon | 3 |
| LAT 275 | Introduction to Landscape Night Lighting | 3 |

PLANT IDENTIFICATION ELECTIVES

| Code | Title | Credits |
|---------|------------------------------|---------|
| HOR 226 | Plant Materials - Deciduous | 3 |
| HOR 227 | Plant Materials - Evergreens | 3 |
| HOR 228 | Plant Materials - Flowering | 3 |
| HOR 272 | Summer Annuals & Perennials | 3 |
| LAT 262 | Native Plants of Oregon | 3 |

ENVIRONMENTAL LANDSCAPE MANAGEMENT TECHNOLOGY AAS DEGREE

Minimum 92 credits. Students must also meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. Students must complete a total of four courses of General Education. Math/computation competency is met through the courses in the program of study indicated with a § symbol. Student should consult with program advisors for course planning.

Course of Study²

The coursework listed below is required. The following is an example of a term-by-term breakdown.

| Term | Code | Title | Credits |
|-----------------------------|-----------------------------------|---|---------|
| First Term | BI 141 | Habitats: Life of the Forest [*] | 4 |
| | ESR 150 | Environmental Studies Orientation | 1 |
| | ESR 200 | Introduction to Environmental Systems | 4 |
| | LAT 236 | Landscape Math [§] | 3 |
| Second Term | CSS 200 | Soils and Plant Nutrition | 4 |
| | LAT 104 | Pesticides | 3 |
| | LAT 115 | Tool and Equipment Safety, Operation and Maintenance | 3 |
| | LAT 272 | Sustainable Landscaping | 3 |
| Third Term | BI 143 | Habitats: Freshwater Biology [*] | 4 |
| | LAT 102 | Plant Establishment and Maintenance | 3 |
| | LAT 108 | Landscape Irrigation I | 3 |
| | LAT 262 | Native Plants of Oregon | 3 |
| Fourth Term | LAT 280A | Cooperative Education: Landscape | 3 |
| | Environmental LAT Degree Elective | | 3 |
| | General Education: 1 course | | |
| Fifth Term | ESR 202 | Applied Environmental Studies: Prep for Problem Solving | 4 |
| | LAT 106 | Plant Anatomy and Physiology | 4 |
| | LAT 223 | Site Evaluation | 3 |
| General Education: 1 course | | | |
| Sixth Term | ESR 201 | Applied Environmental Studies: Science/Policy Consideration | 4 |

| | | |
|-----------------------------------|---|----|
| LAT 243 | Landscape Business Operations | 3 |
| LAT 264 | Landscape Estimating and Bidding | 3 |
| Environmental LAT Degree Elective | | 3 |
| Seventh Term | | |
| ESR 204 | Introduction to Environmental Restoration | 4 |
| LAT 224 | Grading and Drainage | 3 |
| LAT 250 | Plant Diseases, Insects and Weed Identification | 3 |
| LAT 276 | Employment & Careers in the Landscape Industry | 2 |
| Eighth Term | | |
| LAT 280A | Cooperative Education: Landscape ¹ | 3 |
| Environmental LAT Degree Elective | | 3 |
| Total Credits | | 92 |

*
Could be used as General Education.

§
Course cannot be substituted for another course.

1

Students with one year documented work experience in landscape management may take an additional 6 credits of elective courses in lieu of cooperative work experience. Arrange with landscape department chair.

2
Most LAT classes are only offered once a year. First term corresponds to the fall term, second term to winter term, third term to spring term, and 4th term to summer term. Students may start the program at any time of the year. Please contact the LAT program advisor for more guidance.

ENVIRONMENTAL LANDSCAPE DEGREE ELECTIVES

| Code | Title | Credits |
|---------|---|---------|
| BI 101 | Biology I | 4 |
| BI 101H | Biology I: Honors | 4 |
| BI 102 | Biology II | 4 |
| BI 103 | Biology III | 4 |
| BI 141 | Habitats: Life of the Forest | 4 |
| BI 142 | Habitats: Marine Biology | 4 |
| BI 143 | Habitats: Freshwater Biology | 4 |
| BI 145 | Intro. to Fish and Wildlife Conservation and Management | 4 |
| BI 160 | Ecology/Field Biology: Coast | 2 |
| BI 161 | Ecology/Field Bio: Great Basin | 2 |
| BI 163 | Organic Gardening | 4 |
| BI 164 | Bird Identification and Ecology | 4 |
| BI 198 | Independent Study - Biology | 1-4 |
| BI 200B | Principles of Ecology: Field Biology | 4 |
| BI 202 | Botany: An Introduction to the Plant Kingdom | 4 |
| BI 211 | Principles of Biology I | 5 |
| BI 212 | Principles of Biology II | 5 |
| BI 213 | Principles of Biology III | 5 |
| BI 280A | Cooperative Education: Biology | 1-10 |
| BI 298 | Independent Study | 1-4 |
| ESR 140 | Introduction to Sustainability | 4 |
| ESR 141 | Introduction to Individual Sustainability | 4 |

| | | |
|----------|--|-----|
| ESR 171 | Environmental Science: Biological Perspectives | 4 |
| ESR 172 | Environmental Science: Chemical Perspectives | 4 |
| ESR 173 | Environmental Science: Geological Perspectives | 4 |
| ESR 298 | Independent Study: Environmental Science | 1-4 |
| GEO 242 | GIS Programming | 5 |
| GEO 265 | Intro to GIS & Mapping Techniques | 4 |
| GEO 266 | GIS Analysis | 4 |
| GEO 267 | Geospatial Applications | 4 |
| HOR 226 | Plant Materials - Deciduous | 3 |
| HOR 227 | Plant Materials - Evergreens | 3 |
| HOR 228 | Plant Materials - Flowering | 3 |
| HOR 272 | Summer Annuals & Perennials | 3 |
| HOR 285 | Permaculture Design | 7 |
| HOR 290 | Introduction to Landscape Design | 3 |
| HOR 291 | Landscape Design III | 3 |
| LAT 101 | Introduction to the Landscape Industry | 2 |
| LAT 103 | Beekeeping | 2 |
| LAT 109 | Plant Propagation | 3 |
| LAT 111 | Landscape Construction Practices | 3 |
| LAT 112 | The Nature of Green Infrastructure | 1 |
| LAT 214 | Landscape Design II | 3 |
| LAT 219 | Landscape Illustration | 3 |
| LAT 225 | Water Gardens | 3 |
| LAT 237A | Landscape Problem Solving-Fall | 1 |
| LAT 237B | Landscape Problem Solving-Winter | 1 |
| LAT 237C | Landscape Problem Solving-Spring | 1 |
| LAT 238 | Ecosystem-Based Landscaping Practices | 1 |
| LAT 240 | Tree Care | 3 |
| LAT 242 | Arborist Tree Climbing | 3 |
| LAT 271 | Computer-Aided Landscape Design | 3 |
| LAT 275 | Introduction to Landscape Night Lighting | 3 |
| LAT 277 | Landscape Technology Capstone | 3 |
| LAT 280C | Cooperative Work Experience-Landscape Design | 3 |

LESS THAN ONE-YEAR: CAREER PATHWAY CERTIFICATE

Arboriculture (p. 4)
Landscape Service Technician (p. 5)
Landscape Technology Entry Level (p. 5)

ARBORICULTURE CAREER PATHWAY CERTIFICATE

Minimum 12 credits. Students must meet all certificate requirements. The Arboriculture Certificate is a Career Pathway. All courses are contained in the Landscape Technology AAS Degree.

Arboriculture Career Pathway Courses

| Code | Title | Credits |
|------------|------------------------------|---------|
| HOR 226 | Plant Materials - Deciduous | 3 |
| or HOR 227 | Plant Materials - Evergreens | |
| or HOR 228 | Plant Materials - Flowering | |
| LAT 240 | Tree Care | 3 |
| LAT 242 | Arborist Tree Climbing | 3 |

| | | |
|---------------|----------------------------------|----|
| LAT 280A | Cooperative Education: Landscape | 3 |
| Total Credits | | 12 |

LANDSCAPE SERVICE TECHNICIAN CAREER PATHWAY CERTIFICATE

Minimum 32 credits. Students must meet all certificate requirements. The Landscape Service Technician Certificate is a Career Pathway. All courses are contained in the Landscape Technology AAS Degree

Course of Study ¹

The coursework listed below is required. The following is an example of a term-by-term breakdown.

| First Term | | Credits |
|--|--|---------|
| LAT 101 | Introduction to the Landscape Industry | 2 |
| LAT 236 | Landscape Math | 3 |
| Landscape Service Technician Electives | | 3 |
| Second Term | | |
| LAT 115 | Tool and Equipment Safety, Operation and Maintenance | 3 |
| LAT 272 | Sustainable Landscaping | 3 |
| Landscape Service Technician Electives | | 6 |
| Third Term | | |
| LAT 102 | Plant Establishment and Maintenance | 3 |
| LAT 108 | Landscape Irrigation I | 3 |
| Landscape Service Technician Electives | | 6 |
| Total Credits | | 32 |

1

Most LAT classes are only offered once a year. First term corresponds to the fall term, second term to winter term, third term to spring term. Students may start the program at any time of the year. Please contact the LAT program advisor for more guidance.

LANDSCAPE SERVICE TECHNICIAN ELECTIVES

| Code | Title | Credits |
|----------|--|---------|
| CSS 200 | Soils and Plant Nutrition | 4 |
| HOR 226 | Plant Materials - Deciduous | 3 |
| HOR 227 | Plant Materials - Evergreens | 3 |
| HOR 228 | Plant Materials - Flowering | 3 |
| HOR 272 | Summer Annuals & Perennials | 3 |
| HOR 285 | Permaculture Design | 7 |
| HOR 290 | Introduction to Landscape Design | 3 |
| HOR 291 | Landscape Design III | 3 |
| LAT 102 | Plant Establishment and Maintenance | 3 |
| LAT 103 | Beekeeping | 2 |
| LAT 104 | Pesticides | 3 |
| LAT 106 | Plant Anatomy and Physiology | 4 |
| LAT 109 | Plant Propagation | 3 |
| LAT 111 | Landscape Construction Practices | 3 |
| LAT 112 | The Nature of Green Infrastructure | 1 |
| LAT 115 | Tool and Equipment Safety, Operation and Maintenance | 3 |
| LAT 214 | Landscape Design II | 3 |
| LAT 219 | Landscape Illustration | 3 |
| LAT 223 | Site Evaluation | 3 |
| LAT 224 | Grading and Drainage | 3 |
| LAT 225 | Water Gardens | 3 |
| LAT 237A | Landscape Problem Solving-Fall | 1 |
| LAT 237B | Landscape Problem Solving-Winter | 1 |
| LAT 237C | Landscape Problem Solving-Spring | 1 |

| | | |
|----------|---|------|
| LAT 238 | Ecosystem-Based Landscaping Practices | 1 |
| LAT 240 | Tree Care | 3 |
| LAT 242 | Arborist Tree Climbing | 3 |
| LAT 243 | Landscape Business Operations | 3 |
| LAT 250 | Plant Diseases, Insects and Weed Identification | 3 |
| LAT 262 | Native Plants of Oregon | 3 |
| LAT 264 | Landscape Estimating and Bidding | 3 |
| LAT 271 | Computer-Aided Landscape Design | 3 |
| LAT 275 | Introduction to Landscape Night Lighting | 3 |
| LAT 276 | Employment & Careers in the Landscape Industry | 2 |
| LAT 279 | Computer-Aided Landscape Design II | 3 |
| LAT 280A | Cooperative Education: Landscape | 1-10 |
| LAT 280C | Cooperative Work Experience-Landscape Design | 3 |

LANDSCAPE TECHNOLOGY ENTRY LEVEL CAREER PATHWAY CERTIFICATE

Minimum 17 credits. Students must meet all certificate requirements. The Landscape Technology Entry Level Certificate is a Career Pathway. All courses are contained in the Landscape Technology AAS Degree.

Course of Study ¹

The coursework listed below is required. The following is an example of a term-by-term breakdown.

| First Term | | Credits |
|--|--|---------|
| LAT 101 | Introduction to the Landscape Industry | 2 |
| LAT 236 | Landscape Math | 3 |
| Second Term | | |
| LAT 272 | Sustainable Landscaping | 3 |
| LAT Entry Level Career Pathway Electives | | 3 |
| Third Term | | |
| LAT 102 | Plant Establishment and Maintenance | 3 |
| LAT Entry Level Career Pathway Electives | | 3 |
| Total Credits | | 17 |

1

Most LAT classes are only offered once a year. First term corresponds to the fall term, second term to winter term, third term to spring term. Students may start the program at any time of the year. Please contact the LAT program advisor for more guidance.

LAT ENTRY LEVEL ELECTIVES

| Code | Title | Credits |
|---------|----------------------------------|---------|
| CSS 200 | Soils and Plant Nutrition | 4 |
| HOR 226 | Plant Materials - Deciduous | 3 |
| HOR 227 | Plant Materials - Evergreens | 3 |
| HOR 228 | Plant Materials - Flowering | 3 |
| HOR 272 | Summer Annuals & Perennials | 3 |
| HOR 285 | Permaculture Design | 7 |
| HOR 290 | Introduction to Landscape Design | 3 |
| HOR 291 | Landscape Design III | 3 |
| LAT 103 | Beekeeping | 2 |
| LAT 104 | Pesticides | 3 |
| LAT 106 | Plant Anatomy and Physiology | 4 |
| LAT 108 | Landscape Irrigation I | 3 |
| LAT 109 | Plant Propagation | 3 |

| | | |
|----------|--|------|
| LAT 111 | Landscape Construction Practices | 3 |
| LAT 112 | The Nature of Green Infrastructure | 1 |
| LAT 115 | Tool and Equipment Safety, Operation and Maintenance | 3 |
| LAT 115A | Tools and Equipment Seminar | 2 |
| LAT 214 | Landscape Design II | 3 |
| LAT 219 | Landscape Illustration | 3 |
| LAT 223 | Site Evaluation | 3 |
| LAT 224 | Grading and Drainage | 3 |
| LAT 225 | Water Gardens | 3 |
| LAT 237A | Landscape Problem Solving-Fall | 1 |
| LAT 237B | Landscape Problem Solving-Winter | 1 |
| LAT 237C | Landscape Problem Solving-Spring | 1 |
| LAT 238 | Ecosystem-Based Landscaping Practices | 1 |
| LAT 240 | Tree Care | 3 |
| LAT 242 | Arborist Tree Climbing | 3 |
| LAT 243 | Landscape Business Operations | 3 |
| LAT 250 | Plant Diseases, Insects and Weed Identification | 3 |
| LAT 262 | Native Plants of Oregon | 3 |
| LAT 264 | Landscape Estimating and Bidding | 3 |
| LAT 271 | Computer-Aided Landscape Design | 3 |
| LAT 275 | Introduction to Landscape Night Lighting | 3 |
| LAT 276 | Employment & Careers in the Landscape Industry | 2 |
| LAT 277 | Landscape Technology Capstone | 3 |
| LAT 279 | Computer-Aided Landscape Design II | 3 |
| LAT 280A | Cooperative Education: Landscape | 1-10 |
| LAT 280C | Cooperative Work Experience-Landscape Design | 3 |