

**Computer Programming (36 cr.)\***

IT1011 IT Concepts  
IT1012 Computer Applications  
IT1031 Intermediate Computer Applications  
IT2216 Introductory Programming  
IT3027 Web Design  
IT3104 Database Management Concepts  
IT3117 Data Structures & File Organization  
IT4042 UNIX Operating Systems  
IT4043 Advanced Programming  
IT4146 Systems Analysis

**Management Information Systems (36 cr.)\***

IT1011 IT Concepts  
IT1012 Computer Applications  
IT1031 Intermediate Computer Applications  
IT3103 Computer-Based Information Systems  
IT3104 Database Management Concepts  
IT3117 Data Structures & File Organization  
IT3203 Hardware/Software Concepts  
IT4109 Data Communications  
IT4235 Computer Networks  
IT4146 Systems Analysis

*\* Plus, any three of the following courses:*

BA1005 Introduction to Business  
BA2123 Principles Accounting I  
BA2017 Principles of Marketing  
BA3027 Human Resource Management  
BA3141 Small Business Management  
MP2114 Statistics I  
MP1203 Elementary Functions

## **Ecological Landscape Design (36 cr.)**

Courses for this certificate should be taken in the following order: Tools (T), Design Studio (DS), and then Management (M).

AE2004 Soils (3cr.) (T)+  
AE3107 Environmental Geology (T)  
BY2235 Plant Communities (T)  
CM3220 Computer Aided Design (T)\*  
OH2118 Woody Plant Identification I (2 cr.) (T)  
OH2220 Woody Plant Identification II (2 cr.) (T)  
OH3117 Herbaceous Plant Materials (2 cr.) (T)  
OH3130 Major Native Landscapes (DS)  
OH3205 Site Analysis and the Design Process (DS)  
OH3213 Landscape Graphics (2 cr.) (DS)\*  
OH3216 History of Landscape Architecture (2 cr.) (M)  
OH3217 Herbaceous Plant Materials II (2 cr.) (T)  
OH4215 The Built Environment (DS)  
OH4125 Ecological Landscape Management (M) or  
OH4230 Landscape Contracting and Bidding (M)

+ This course involves some chemistry.

\* These courses require some experience/familiarity with computers and basic software packages.

## **Environmental Studies Certificate (18 cr.)**

The certificate consists of required (R) and elective (E) courses. We recommend that prospective students complete college level courses in chemistry, biology and mathematics before enrolling in the program.

AE2004 Soils (R)  
AE3125 Principles of Ecology (R)  
AE3140 Environmental Impacts (R)  
AE3220 Hydrology (R)  
AE3107 Environmental Geology (E)  
AE4015 Regional Land Use Planning (R)  
AE4025 Climatology (E)  
AE4016 Hydrogeology (E)

### **Floral Business Certificate Program (32 cr.)**

BA1005 Introduction to Business  
BA3027 Human Resource Management  
OH2014 Floriculture Techniques  
OH2120 Floral Business Management  
OH3020 Basic Design (1 cr.)  
OH3106 Floral Crop Production I (2 cr.)  
OH3208 Floral Crop Production II (2 cr.)  
OH3117 Herbaceous Plant Materials I (2 cr.)  
OH3217 Herbaceous Plant Materials II (2 cr.)  
OH3232 Introductory Floral Design  
OH4108 Interiorscaping  
OH4145 Advanced Floral Design (2 cr.)  
OH4209 Greenhouse Management

### **Food Technology Certificate Program (30 cr.)**

The certificate consists of 30 credits, 20 in food science and 10 in the biological and physical sciences. At least 15 credits must be taken through DVC. The certificate consists of required (R) and elective (E) courses.

FS2212 Sanitation Management (R)  
FS3218 Food Microbiology (R) (4cr.)  
FS2116 Physical Sciences and Food (E)  
FS3120 Introduction to Nutrition (E)  
FS4004 Industrial Fermentations (E)  
FS4015 Waste Treatment and Control (E) (2cr.)  
FS4042 Sensory Evaluation of Foods (E) (2cr.)  
FS4149 Quality Assurance and Regulation (E)  
FS3211 Food Chemistry (R) (4 cr.)  
FS4112 Food Preservation (R)  
FS3223 Dairy Products Processing (E)  
FS4212 Refined Foods and Food Ingredients (E)  
FS4228 Meat and Meat Products (E)