

OPTION: Soils

Crop production and plant growth are emphasized in the general soils option. Soil management, soil conservation, and soil reclamation are related to plant growth for those students interested in both private industry and government employment opportunities as well as farm management. You must select one course from each of the four following subject matter areas and a total of at least ten courses (30 credits): soil, water or range management; crop production or protection; farm and ranch management and economics; math, statistical, or computer sciences.

OPTION: Environment and Resource Management

Soil science is integrated into the management of the environment and natural resources. Students interested in careers of conservation, environmental management, urban planning, waste disposal, and related fields in government and industry may choose from a variety of course offerings. The economic and social implications as well as the technological aspects of resource management are included in the option courses. You must select one course from each of the four following subject matter areas and a total of at least ten courses (30 credits): soil, water, wildlife, or range conservation and economics; ecology, plant biology, or crop production; earth, mineral, or climactic resources; math, statistical, or computer sciences.

OPTION: Soil and Water Science

The soil and water science option is for students interested in careers in water management and water quality. Employment opportunities exist with irrigation districts, consulting firms, and government agencies dealing with water management and quality. The optimum use of water in semi-arid areas is emphasized through selection of courses in the technical and social sciences. You must select one course from each of the four following subject matter areas and a total of at least ten courses (30 credits): soil and water engineering; ecology; crop production and protection; math, statistical, or computer sciences.

DEGREE: Bachelor of Science in Agriculture

MAJOR: Recreational Areas Management

- OPTION: Golf and Sports Turfgrass Management**
- OPTION: General Turfgrass Management**

Golf and turf management as well as general turfgrass management specialists help to build, maintain, and manage golf courses, athletic fields, parks, and other recreational areas. As a major in either option, you must acquire two summers' work experience with a golf course, parks department, or other acceptable recreational unit.

Golf, Sports, and General Turfgrass Management

At least 28 credits of agronomy, horticulture, and soil courses are required with no more than 18 credits in any one area.

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| AGRO/HORT/SOIL 391, Internship | 1-3 |
| AGRO/HORT/SOIL 378, Turfgrass Science..... | 4 |
| AGRO/HORT/SOIL 479, Advanced Turfgrass Science | 3 |
| AGRO/HORT/SOIL 447, Seminar..... | 1 |
| BIOL 111G, Principles of Biology, or BIOL 211G, Cellular and Organismal Biology..... | 3 |
| BIOL 314, Plant Physiology | 3 |
| CHEM 111, CHEM 112, General Chemistry I, II | 8 |
| EPWS 303, Economic Entomology | 4 |
| EPWS 310, Plant Pathology..... | 4 |
| MATH 142G, Calculus for the Biological and Management Sciences I, or MATH 121, College Algebra..... | 3 |
| SOIL 252, Soils | 3 |

Other related courses (Nine courses required):

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| AG E 236, Agribusiness Management Principles | 3 |
| AG E 250G, Life with Microcomputers | 3 |
| AG E 337G, Natural Resource Economics | 3 |
| AGRO/HORT 471, Plant Mineral Nutrition | 3 |
| EPWS/AGRO 311, Introduction to Weed Science | 4 |
| E T 106, Technical Drawing I | 3 |
| HORT 250, Plant Propagation..... | 3 |
| HORT 301, Introduction to Landscape Horticulture | 3 |
| HORT 307, Landscape Design | 3 |
| HORT 308, Landscape Construction | 3 |
| HORT 350, Arboriculture | 2 |

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| MGT 309, Human Relations in Business..... | 3 |
| MGT 332, Personnel Management | 3 |
| SOIL 312, Soil Management and Fertility | 4 |
| SOIL 350, Soils and Land Use | 3 |
| SOIL 456, Irrigation and Drainage | 3 |

DEGREE: Bachelor of Science in Environmental Science

MAJOR: Environmental Science

The environmental science major is a multidisciplinary program based on a strong general science curriculum and an environmental curriculum that focuses on environmental problems and solutions. Options permit an area of specialty. Although administered by the Department of Plant and Environmental Sciences, a multidisciplinary advisory committee recommends curriculum and other changes to the program. The program is rigorous to make graduates competitive for environmentally oriented careers in industry and government. A grade of C must be earned in the Basic Background, Core Requirements, and Options courses.

Basic Background Courses

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| BIOL 111G, Natural History of Life..... | 3 |
| BIOL 211G, Cellular and Organismal Biology | 3 |
| BIOL 311, Microbiology..... | 3 |
| C E 151, Introduction to Civil Engineering..... | 3 |
| CHEM 111, CHEM 112, General Chemistry I, II | 8 |
| CHEM 211, Organic Chemistry | 4 |
| E ST 311G, Statistical Applications | 3 |
| GEOG 111G, Geography of the Natural Environment..... | 4 |
| GEOL 111G, Survey of Geology | 4 |
| MATH 191, MATH 192, Calculus and Analytic Geometry I, II..... | 6 |
| PHYS 215, Engineering Physics I..... | 3 |
| SOIL 252, Soils..... | 3 |
| SOIL 252L, Soils Laboratory..... | 1 |

Core Requirements

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| E S 110G, Introduction to Environmental Science | 4 |
| E S 256, Environmental Science | 3 |
| E S 301, Principles of Ecology..... | 3 |
| E S 312, Emergency Response to Hazardous Material Incidents | 2 |
| E S 330, Environmental Management Seminar I..... | 1 |
| E S 361, Basic Toxicology | 3 |
| E S 370, Environmental Soil Science | 3 |
| E S 422, Environmental Chemistry..... | 3 |
| E S 430, Environmental Management Seminar II..... | 1 |
| E S 452, Geohydrology | 3 |
| E S 453, Regulatory Toxicology..... | 2 |
| E S 458, Ecology of Inland Waters..... | 3 |
| E S 462, Sampling and Analysis of Environmental Contaminants | 3 |
| E S 470, Environmental Impacts of Land Use..... | 4 |

Options

One option (area of specialty) must be chosen by the student. Eight options are available (chemistry, geology, soils, wildlife, water, spatial analysis, environmental health and environmental economics). Four upper-division courses (12-15 credits) from a short list are selected by the student. Advisers have lists of the appropriate sources for each option.

SCHOOL OF HOTEL, RESTAURANT, and TOURISM MANAGEMENT

Janet L. Green, Director

Associate Professors Blanch, Bloomquist, Mandabach; **Assistant Professor** Lee
(505) 646-5995

DEGREE: Bachelor of Science in Hotel, Restaurant, and Tourism Management

MAJOR: Hotel, Restaurant, and Tourism Management

The mission of the School of Hotel, Restaurant, and Tourism Management is to serve the needs of our constituents through innovative teaching, research, professional applications, and partnerships in a multicultural and international environment.

This bachelor's degree program prepares you for supervisory and entry-level management positions in all areas of the diverse and growing hospitality and tourism industry. The program also provides a foundation for your continuing development to advance to more senior management or to pursue entrepreneurial opportunities. In this professional program, faculty, students, and industry partners bring together theory and practice to forge hospitality management excellence. The curriculum is designed to educate students as individuals and professionals in a changing society. You will take a core curriculum until your senior year, when you may specialize in one of the three concentration areas listed, or develop an individual plan with your faculty adviser for selecting your professional elective courses. A grade of C or better must be earned in each upper-division HRTM class to satisfy the requirement of the major.

You are required to participate in an internship program that is offered only after completion of 400 hours of hospitality work experience (practicum). The HRTM 307, 408, and 409 internship sequence, which includes another 400 hours in the field, must be completed prior to enrolling in other 400-level courses. Thus, at the end of both the work experience practicum and the internship, you will have completed a minimum of 800 hours professional work experience in the field.

Hotel, Restaurant, and Tourism Management Core Courses

General Education Requirements (44 credits)

A list of specific general education requirements is available in the department. Please check with your adviser.

Departmental Requirements (43 credits)

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| HRTM 201, The Tourism System and Travel Services | 3 |
| HRTM 221, Introduction to Hospitality Management..... | 3 |
| HRTM 231, Safety, Sanitation/Health in the Hospitality Industry | 2 |
| HRTM 263, Food Production and Service Fundamentals | 3 (1+4P) |
| HRTM 301, Hotel, Restaurant, and Tourism Marketing | 3 |
| HRTM 302, Hospitality Management Accounting | 3 |
| HRTM 304, Hospitality and Travel Law..... | 3 |
| HRTM 307, Professional Development | 1 |
| HRTM 311, Hospitality Leadership Management | 3 |
| HRTM 331, Hotel Operations 1 | 3 |
| HRTM 363, Quantity Food Production and Service | 4 |
| HRTM 408, Hospitality Internship | 1 |
| HRTM 409,, Internship Seminar | 1 |
| HRTM 410, Hospitality Cost Control | 3 |
| HRTM 430, Hospitality Facilities Management..... | 3 |
| HRTM 434, Senior Capstone (complete during final semester)..... | 3 |

Nondepartmental Requirements (23 credits)

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| AGHE 111, Freshmen Orientation | 1 |
| SPAN 111, Elementary Spanish I..... | 4 |
| Acct 252 Financial Accounting | 3 |
| FIN 341 Financial Analysis and Markets | 3 |

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| any MKTG #300 and above | 3 |
| E ST 311G, Experimental Statistics (students with Math 115, Intermediate Algebra, may substitute STAT 251, Statistics for Business and Behavioral Sciences) | 3 |
| MGT 309, Human Behavior in Organizations | 3 |
| MGT 332, Human Resources Management..... | 3 |

Departmental Electives (9 credits)

You may choose 9 credits from the interest area groups listed below, or in consultation with your adviser, you may combine them in any way that accommodates your special interest.

•Hotel Management*

The hotel/resort operations area addresses specific concepts, practices, and issues in hotel, resort, bed and breakfast, conference and contract lodging facilities management and ownership.

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| HRTM 404, Gaming Operations..... | 3 |
| HRTM 412, Beverage Management..... | 3 |
| HRTM 413, Restaurant Operations Management..... | 4 |
| HRTM 423, Hospitality and Tourism Research and Applications | 3 |
| HRTM 431, Hotel Operations | 3 |
| HRTM 432, Hotel Property Revenue and Sales Management..... | 3 |
| HRTM 433, Training for Hospitality Operations..... | 3 |
| HRTM 443, Hotel Meetings, Conventions and Special Events..... | 3 |

•Restaurant and Food Service Management*

The restaurant and food service management areas address specific concepts, practices, and issues in restaurant, banquet, catering, and contract food service management and ownership.

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| HRTM 404, Gaming Operations..... | 3 |
| HRTM 412, Beverage Management..... | 3 |
| HRTM 413, Restaurant Operations Management..... | 4 |
| HRTM 414, International Food and Wine | 3 |
| HRTM 423, Hospitality and Tourism Research and Applications | 3 |
| HRTM 433, Training for Hospitality Operations..... | 3 |
| HRTM 443, Meetings, Conventions and Special Events | 3 |

Other HRTM Electives

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| HRTM 310, Colloquium (repeat up to 2) | 1-2 |
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•Open Electives

Sixteen hours of free electives are available to meet your goals. *Plus a sufficient number of electives to ensure a minimum of 128 semester credits, some of which must be in courses at the 300 level or above to meet the university requirement of 54 credits at this level. These elective courses are designed to provide you with an opportunity to learn about or possibly minor in another field of study. This selection may depend on your professional career choices and interest in the specific hospitality area itself. Course requirements for minors in other areas differ; therefore, it is necessary for you to consult with your advisor.