

Horticulture - an art as old as the "ancient garden", a science as new as today's "genetic engineering".

LANDSCAPE DESIGN

For students interested in planning, designing and installing landscapes.

HORTICULTURE SCIENCE

For careers oriented toward research, education and extension.

HORTICULTURE BIOTECHNOLOGY

For laboratory research oriented careers.

PRODUCTION BUSINESS

For careers in growing, marketing and processing horticultural crops.

URBAN FORESTRY AND PARKS

For careers in the management of urban forests and park areas, including arboreta, botanic gardens and residential landscapes.

HORTICULTURE

A multitude of opportunities

HORTICULTURE IS A GROWING CAREER IN MANY WAYS.

Each year people are spending increasing amounts on flowers, ornamental woody plants and landscaping to make the world around them a relaxing and beautiful place. The demand for growers and suppliers of these plants and landscape services is rising and will continue to do so.



THE NDSU HORTICULTURE PROGRAM IS DESIGNED TO PROVIDE YOU WITH THE SKILLS, KNOWLEDGE AND EXPERIENCE NEEDED TO BE A SUCCESSFUL HORTICULTURE PROFESSIONAL.

You not only learn how to grow plants successfully, but gain skills in design, plant health care, plant identification and selection. You acquire scientific, communication and business skills to get your career growing!

Students gain practical experiences by enrolling in summer internships.

But being in horticulture doesn't restrict you to growing plants and landscaping! It can include sales and marketing, teaching and extension and even television and writing.

WHY HORTICULTURE - WHAT'S IN IT FOR ME?

A degree in Horticulture can lead to careers in many different areas due to the diversity of this science and art, so you are always doing something interesting!

Basic classes teach you about plants and their environment. You learn about:

- insects and how they affect plants, both beneficial and harmful
- plant diversity and interaction with the environment
- diseases that infect plants
- the soil in which plants grow and the significance of site variation.

Others include:

- how to manage a business
- how to effectively communicate with people.



You then decide on your speciality area and concentrate on the specifics! You can choose the big picture - like managing an urban forest or landscaping parks or perhaps you are more interested in the intricate details such as the propagation of plants and tissue culture or maybe somewhere in between!

INTERESTED?

Contact us: NDSU Department of Plant Sciences, Horticulture Program: (701) 231- 7971 or visit our website: <http://www.ndsu.edu/ndsu/academic/factsheets/ag/hortfore.shtml>



NDSU offers Masters and PhD programs so that you can continue in the field of your choice after you finish your undergraduate degree.



CAREERS IN...

NURSERY PRODUCTION AND GARDEN CENTER MANAGEMENT

Identifying and understanding the characteristics of different plants and the requirements for optimum growth. Business management skills are also taught. For example, business and computer courses combined with plant knowledge will enable you to run a successful nursery or garden center business.



GREENHOUSE PRODUCTION

Managing crops, both vegetables and flowers in a greenhouse situation, includes knowledge in the structure of the greenhouse, environmental control, plant nutrition, growth regulation, pest control and business management skills for commercial production of many crops grown in a greenhouse.



FLORAL DESIGN

Included in the Horticulture program is the opportunity to study floral design, its history and elements involved in the design process. Numerous retail firms now offer floral and plant gift services.



FRUIT AND/OR VEGETABLE GROWER

Production of high value crops such as potatoes and other vegetables and fruits. Includes classification, culture, post-harvest handling, and marketing of fruit and vegetable crops.

MANAGING PARKS, ARBORETA, FORESTS

Horticulture can prepare you for positions as an arborist or urban park-forester. These people are involved in the selection, planting and management of woody and herbaceous plants or positions in national, state and local park systems, botanic gardens and arboreta, as well as residential landscapes



TEACHING, EXTENSION AND COMMUNICATION.

If you are interested in teaching or assisting people, a degree in horticulture can enable you to enter a career as an extension horticulturalist who assists growers, industry, and the public.

You may be interested in communicating horticultural information to the public and there are many opportunities for writers/editors for television, radio, magazines and newspapers.

PLANT SCIENCE RESEARCH

Positions are available at public and private institutions in field and laboratory research which may include horticultural plant breeding, pesticide evaluation, crop physiology, product testing and quality control, plant propagation and biotechnology.



LANDSCAPING - URBAN PARKS, RESIDENTIAL PROPERTIES

Learning the principles of designing residential landscapes. Includes the design and planting for landscapes, parks, highways and public facilities, including interiorscapes, in rural, suburban and urban areas.

Landscape design includes positions for planners, designers and installers of residential, commercial, public, and recreational landscapes (both exterior and interior), employment with nurseries, garden centers, landscape management firms or as private consultants.



SALES AND MARKETING

Positions available in industry include management and sales in horticulture or allied firms for fertilizers, seed, food and ornamental crops, pesticides, equipment, processing and packaging. It involves retail/wholesale distribution of horticultural products and buying, selling and distribution of supplies and products used by horticultural industries.

Other positions include field diagnosticians or inspectors for fresh and processed products in federal or private agencies.

SPORTS AND URBAN TURFGRASS MANAGEMENT

A related area included in the Department of Plant Sciences that prepares you for positions in golf course or sports turf management and maintenance.

You learn different turfgrass characteristics required for different soils and climates and strategic management practices for varying turf sites and uses.

