

ACADEMICS

Botany prepares students for variety of careers

By **THERESA ANN WILLIAMS**
Co-Editor

For any individuals who have a considerable interest in the outdoors and plants, they should examine the prospect of botany as a major.

The Botany Department offers the undergraduate degrees of Bachelor of Arts and Bachelor of Science to students with an interest in plants and plant processes.

Students majoring in Botany acquire a background to understand the diversity of plants, the variety of forms, their metabolism, principles of inheritance, developmental and biochemical processes. Courses are offered that provide insight into the nature of these processes from the molecular to the ecosystem level. The economic uses of plants as well as their influence upon the earth's environment are taught. Training in Botany prepares students for a variety of careers: in teaching; positions in government agencies (United States Departments of Agriculture; Health, Education and Welfare; and Interior; Environmental Protection Agency; National Institutes of Health); or in scientific research and its practical applications in food or fiber production, medicine, pharmaceuticals and drugs, plant pathology, horticulture and forestry. The degree programs in Botany

also can provide a liberal education, directed toward an appreciation of the nature, complexity, and beauty of plants.

Dr. Tom Scott, chairman of the botany department stated that one of the major strengths of the department was "its breadth — the fact that it covered many areas. The botany department interacts with many disciplines.

There are presently 30-40 undergraduate botany majors and 40 graduate majors.

Botany 10 and Botany 11 are basically the first two courses in the botany curriculum. Botany 10 (Plants and Life) is basically for non-science majors, and Botany 11 (General Botany) is basically for majors but is also open to all undergraduates regardless of their field of study.

Dr. William Koch, a professor in the botany department for 20 years, teaches the Botany 10 course.

Willie, as he prefers to be called by his students, describes his class as "an experiment in personalizing mass education." He does this by dividing his large lecture groups into smaller groups of eight students or less. Each student within each group forms a friendly and working relationship with the other members. During the semester, each person in the group is able to be a teacher to the other members. By teaching each other, Willie stresses

that the students are helping each other learn.

One idea Willie attempts to get across is to get his students to compromise. He feels that students should be willing to compromise while working in groups. By doing so, they become more tolerant of other individuals and their differences.

Three qualities which Willie states are the goals of liberal arts majors are self-identification, self-discovery, and self-motivation. These qualities Willie hopes his students can attain from his course.

Willie has in many of his classes kept a photo of each of his students. He explains that he wants to get to know everybody.

He prefers that his students call him Willie because he likes to come down from the authoritative position and be on the same communication level with his students.

Dr. Scott in his approach to his Botany 11 students attempts to get all of his students interested in the course. He hopes to achieve this by dividing his class into two groups. One group will consist of those students with a great interest in botany, while the other group will consist of those students who feel they can't accomplish much in the class or who feel they have no interest in the class.

By setting up these two groups and working with each group individually, Dr. Scott

hopes to stimulate an interest in botany and to make it more appealing to students.

Both instructors admit that botany is looser than most majors. Students are able to select either an A.B. degree or a B.S. degree in botany. Some students may receive a degree through interdisciplinary studies.

The requirements for the B.A. degree are: Botany 11 or Biology 21-21L, Botany 51, 53 and 54. Four additional Botany courses must be taken which may be chosen to complement the student's special interest in Botany. Allied course requirements are: Chemistry 11-11L, and 21-21L (organic chemistry is recommended and is a prerequisite to some Botany courses); and either Physics 24 and 25 or Geology 41 and 42. Students intending to continue to graduate school are encouraged to take more chemistry and to have two years of a foreign language. They are encouraged to conduct a research investigation on some botanical problem.

The B.S. degree is designed to provide a more directed and comprehensive program for students who intend to pursue a professional career in botany. The requirements for this degree are: a foreign language — French, German or Russian (3, 4, and 21, or 1, 2, 3, 4) plus Mathematics 31 and one other Mathematics. Botany 11
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FALL GROUP PROGRAMS

University Counseling Center

NASH HALL
933-2175

Each semester the University Counseling Center offers a number of group programs. Most will meet weekly for 1-2 hours. For some, the starting date is indicated, for others, you must call the UCC to find out the time. If you want to sign up for a group, please call the UCC number (933-2175) and indicate which one(s) you are interested in or bring or mail the application blank to the UCC, Nash Hall, 032-A, UNC, Chapel Hill, NC 27514. You will be given further details about the meeting place. To participate in some of the groups, you must first make an appointment to see the leader, which you should do as soon as possible. If the starting time indicated here is impossible for you, call us anyway and ask to be put on a waiting list, since additional groups may start later in the semester if enough people express interest.

1 ASSERT YOURSELF

SPECIAL OPPORTUNITY WEEKEND WORKSHOP

This semester the Counseling Center continues a research study involving trained counselor therapists in the Durham-Chapel Hill area. Their specialties include fresh approaches to social ease and self-esteem. Emphasis will also be placed on learning to express feelings, needs, and opinions without putting down yourself or others. All day Saturday and a half day Sunday. Dates to be arranged. If interested, call 933-2175 or come by the Counseling Center and ask for a descriptive packet.

2 SPEECH ANXIETY

Designed for those who find public speaking (e.g. in a class or before a group) an uncomfortable experience. It will focus on anxiety reduction (relaxation techniques) and skill-building (e.g. speech organization, voice quality and posture). LEADER: David McNair. TIME: Mondays, 7:00-9:00 p.m., starting September 17th.

3 TIME MANAGEMENT

Are you a juggler — trying to find time to go class, study, participate in activities, party, and sleep? If so, you probably need to improve your time management skills. Learn to set goals and priorities, kick the time abuse habit, and learn about skills and resources that can help you make more effective use of your time. Invest two hours and your dividend will be greater control over your life. LEADERS: Penny Rue and Ruth Bernstein. TIME: Group 1: Thursday, September 20, 7:00-9:00 p.m. Group 2: Thursday, October 25, 7:00-9:00 p.m. Group 3: Thursday, November 15, 7:00-9:00 p.m. Please indicate which group you are interested in.

4 LEADERSHIP SKILLS

This is a new workshop, designed in a flexible manner so that it can be adapted to a student group already working together which would like to increase its effectiveness, or individuals interested in developing their leadership potential. Possible topics will include goal setting, decision-making, leadership style assessment, feedback, role negotiation, and others. Groups: Contact Penny Rue (933-2175) or Archie Copeland (966-3128) to arrange a consultation. Individuals: Call the Counseling Center to indicate interest, or watch Campus Calendar for more information.

5 COMMUNICATION SKILLS

This group is designed to help individuals who have difficulty establishing and maintaining relationships with others. The workshop will focus on giving and receiving feedback, setting goals for behavioral change in social settings, and building interpersonal skills through sharing, trusting and risk taking. Participants will be asked to make a commitment to participate in all six sessions. LEADER: Tina Page Beissinger, Ph.D. TIME: Tuesdays, 2:00-4:00 p.m., starting October 30th.

6 ASSERTIVE JOB SEEKING

This group will use assertion training techniques to help members develop effective job seeking skills. It will involve group participation through role-playing exercises and audio-visual feedback. Size of group limited. Priority given to students older than average (i.e. age 25 and up). LEADERS: Lois Filley and Jane Spanel. TIME: 3:00-5:00 p.m., on Mondays, October 29, November 5 and November 12.

7 COPING WITH STRESS

College may be hazardous to your health. The pressures of student life are many and varied — grades and tests, papers, projects, dating, friendships, finances, parents, etc. How do you handle stress? What do you do to alleviate the pressure? Join us in learning where stress comes from, how it works, and what to do about it. Topics will include internal and external causes of stress, techniques for reducing it, and relaxation training. LEADERS: Alice Lawler and Bob McDonald. TIME: Tuesdays, 3:30-5:00 p.m., starting September 25th.

8 OK & STILL GROWING

An opportunity to develop and deepen feelings of OKness and learn to be close to others without game-playing. Emphasis will be placed on learning how to use others for support and emotional problem-solving. Members will also be able to deal with unfinished business from the past that keeps them from feeling good about themselves and others. LEADERS: Bob McDonald and Jim Whiteside. TIME: Thursdays, 3:30-5:00 p.m.

9 CENTERING/VENTURING

A group designed to "center" in on your values, interests, skills, and life style preferences and then "venture" by learning to apply this knowledge creatively to the world of work. The group will also explore university resources and sources of information about job seeking. LEADER: Penny Rue. TIME: Tuesdays, 7:00-10:00 p.m., on October 2, 9, and 16. Please plan to attend all three sessions.

10 WHAT DO I WANT TO DO?

This is a short program (2 sessions) designed to help you identify your values, interests and skills and learn to combine them in a meaningful way in choosing career possibilities. LEADER: Penny Rue. TIME: Group 1: Tuesday and Wednesday, September 25 & 27, 7:00-9:00 p.m. Group 2: Tuesday & Thursday, October 30 and November 1, 7:00-9:00 p.m. Please indicate which group you are interested in.

11 PRE-CAREER EXPERIENCE

An introduction to the Pre-career Experience Program (P.E.P.), which helps students find internships, summer jobs, volunteer experiences, and other short-term work. You can register to receive P.E.P. newsletter and will learn of the many services available. Students should pick up a schedule of the times the meeting is offered in the reception area of Nash Hall (on Pittsboro Street across from Carolina Inn parking lot.) No sign-up necessary. LEADER: Ruth Bernstein.

12 BESIDES GROUPS . . .

The University Counseling Center also offers personal and career counseling on an individual basis to UNC students. The testing program at the UCC provides personality and career interest tests and the occupational educational information library offers excellent resources on careers and graduate school programs. The center is staffed by professional counselors and counselor interns.

UNIVERSITY COUNSELING CENTER FALL 1979 GROUP PROGRAMS

Please reserve space for me in the following group(s):

Name _____ Zip _____
Address _____
Phone _____ Year in school _____
Bring or mail to: University Counseling Center
Nash Hall, 032-A
Univ. of North Carolina
Chapel Hill, N. C. 27514