

**MUSIC 362 (3)—Advanced Composition II**

*Prerequisite: Music 361.* Study includes writing idiomatically for the instruments; writing for voice and setting text properly; and achieving varying textural and timbral usages. In addition, students try different styles of contemporary writing in order to find the one that suits them best. *Staff.*

*Winter*

**★MUSIC 374 (6)—Supervised Study in Europe**

(Alternate years)

*Prerequisite: Permission of the instructor.* A seminar in the music and culture of selected European musical centers. For 1998, the seminar will be held in London, England. *Spice.*

*Spring*

**★MUSIC 395 (3)—Seminar: Literature and Style of Instrumental Music**

*Prerequisite: Permission of the instructor.* May be repeated for degree credit with permission and if the topics are different. *Gaylard.*

*Spring*

**★MUSIC 396 (3)—Seminar: Literature and Style of Vocal Music**

*Prerequisite: Permission of the instructor.* May be repeated for degree credit with permission and if the topics are different. *Spice.*

*Spring*

**★MUSIC 397 (3)—Seminar: Topics in Composition-Related Techniques**

*Prerequisite: Permission of the instructor.* Topics will change from year to year and include orchestration, notation, electronic music and scholarly or compositional participation in Sonoklect, the new music festival. May be repeated for degree credit with permission and if the topics are different. *Staff.*

*Spring*

**MUSIC 423 (3)—Directed Individual Project**

*Prerequisite: Music major and permission of the instructor.* May be repeated for degree credit with permission. *Staff.*

*Fall, Winter*

**MUSIC 441 (1-2), 442 (1-2), 443 (1)—Applied Music**

*Prerequisite: Permission of the instructor.* One credit is earned for a one-half hour private lesson and a minimum of five hours practice a week during the fall and winter terms; a one hour private lesson and a minimum of 10 hours practice a week are required during the spring term. A two-credit course requires double the lesson and practice time. *Staff.*

*Fall, Winter, Spring*

**MUSIC 493 (3-3)—Honors Thesis**

*Fall-Winter*

## NEUROSCIENCE

PROFESSOR JARRARD\*

A major in **neuroscience** leading to a Bachelor of Science degree requires the completion of at least the following 50 credits:

1. Biology 112, 215, 220; Chemistry 241, 242; Neuroscience 120, 395; Psychology 111, 180, 253
2. either Biology 250 or 365
3. either Psychology 255 or 257
3. At least nine credits chosen from the following:
  - Biology 422, 423, 424, 425, 426, 492-496
  - Chemistry 421, 422, 423, 433, 436, 439, 471, 472, 473, 493
  - Computer Science 251 (Engineering 251)
  - Psychology 353, 355, 357, 431, 432, 433, 473, 493

Additional courses required as prerequisites for completion of the above include Chemistry 111 and 112.

Students contemplating application to graduate programs or medical school should note that Chemistry 244 (Biochemistry), Mathematics 102 (Calculus II), and Physics 109 (General Physics II) are either required or highly recommended by most admissions committees.

Neuroscience courses are as follows; for course descriptions, see the appropriate departmental listings:

- Biology 112—General Biology II
- Biology 215—Cell and Molecular Biology
- Biology 220—Genetics
- Biology 250—Vertebrate Endocrinology
- Biology 365—Developmental Biology
- Biology 422-426—Directed Individual Research
- Biology 492-496—Honors Thesis
- Chemistry 241—Organic Chemistry I
- Chemistry 242—Organic Chemistry II
- Chemistry 421-423—Directed Individual Research
- Chemistry 433-439—Tutorial
- Chemistry 471-473—Senior Thesis
- Chemistry 493—Honors Thesis
- Computer Science 251—Laboratory Computer Applications
- Engineering 251—Laboratory Computer Applications
- Neuroscience 120—Introduction to Neuroscience
- Neuroscience 395—Special Topics in Neuroscience
- Psychology 111—Brain and Behavior
- Psychology 180—Research Design and Analysis
- Psychology 253—Physiological Psychology
- Psychology 255—Human Neuropsychology
- Psychology 257—Developmental Psychobiology
- Psychology 353—Directed Research in Physiological Psychology
- Psychology 355—Directed Research in Human Neuropsychology
- Psychology 357—Directed Research in Developmental Psychobiology
- Psychology 431-433—Tutorials in Psychology
- Psychology 493—Honors Thesis

\*Head of Neuroscience Program Advisory Committee

**NEUROSCIENCE 120 (3)—Introduction to Neuroscience**

An introduction to neuroscience emphasizing the molecular organization, chemistry, and physiology of the neuron, how neurons are organized into functional circuits, and how these functional circuits process information and control both normal and abnormal behavior. *Stewart.*

*Winter*

**NEUROSCIENCE 395 (1-3)—Special Topics in Neuroscience**

*Prerequisites: Neuroscience 120 and junior standing.* A seminar designed to provide the advanced student with a broader knowledge of the field of neuroscience. Specific topics will vary and will be determined, in part, by student interest. May be repeated for credit with permission and if the topics are different. *Staff.*

*Fall, Winter*

**PHILOSOPHY**

Pierre S. duPont Foundation

PROFESSORS SESSIONS, BOGGS, ELROD,  
PEMBERTON  
ASSISTANT PROFESSOR WILSON

**MAJOR**

A major in **philosophy** leading to a Bachelor of Arts degree requires completion of 42 credits including the following:

1. At least 30 credits in philosophy, exclusive of Philosophy 473 and 493, and including
  - a. Philosophy 106;
  - b. at least 21 credits chosen from philosophy courses numbered 200 and above; and
  - c. four courses in the history of philosophy or major figures chosen from among the following: Philosophy 141, 142, 144, 221 (Classics 221), 222, 263, 265, 311, 314, 316, and 195, 395, and 403 when the topics are appropriate
2. At least nine credits chosen from offerings in philosophy or related disciplines, with the approval of the department head
3. Philosophy 473(3) or 493(3-3). The thesis is prepared under the supervision of an adviser and is presented for evaluation in the student's final term, normally the spring term of the senior year

*HONORS: An Honors Program in philosophy is offered for qualified students; see department head for details.*

*SPECIAL PROGRAM: See description of Cognitive Science on Pages 87 and 126.*

**★PHILOSOPHY 101 (3)—Problems of Philosophy**

*Open to freshmen and sophomores only.* An introduction to some of the major ethical, political, and social problems we persistently confront. Selected readings from major philosophers. *Staff.*

*Fall, Winter*

**★PHILOSOPHY 102 (3)—Problems of Philosophy**

*Open to freshmen and sophomores only.* An introduction to some of the major problems that arise in inquiry into the nature of knowledge and reality. Selected readings from major philosophers. *Staff.*

*Fall*

**★PHILOSOPHY 106 (3)—Introduction to Logic**

The study of argumentation and modern formal logic. This course explores the basic principles of deductive and inductive reasoning. Students learn to symbolize and evaluate natural language arguments. Topics covered include the study of formal and informal fallacies, propositional and predicate logic, scientific induction, and probabilities. *Wilson.*

*Fall, Winter*