

## ENVIRONMENTAL STUDIES

ASSOCIATE PROFESSOR RUSCIO\*

Students with an interest in environmental studies may choose to major in environmental studies in geology (described on page 147). For those students majoring in one of the other sciences, a social science or one of the humanities, an introductory course and three seminars designed to complement each other provide an interdisciplinary perspective on environmental issues. For course descriptions, see the appropriate departmental listings.

Interdepartmental 110—Introduction to Environmental Studies  
 Geology 150—Water Resources  
 Philosophy 260—Philosophy of Nature  
 Politics 233—Environmental Policy

Other courses have also been identified as helpful to those students seeking a broad understanding of environmental issues.

Biology 245—General Ecology  
 Economics 120—Economics, Ecology and Resource Conservation  
 Geology 135—Meteorology  
 Geology 140—Geology of National Parks  
 Geology 146—Geology of Natural Resources  
 Geology 201—Oceanography  
 Philosophy 108—Ethics and the Environment  
 Physics 110—Energy and the Environment

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\*Head of the Environmental Studies Committee

## FRENCH

(Department of Romance Languages)

G. W. Custis Lee Foundation

PROFESSOR FRALIN  
 ASSOCIATE PROFESSORS KNUDSON,  
 KOBERSTEIN, LAMBETH  
 ASSISTANT PROFESSORS, FREGNAC-CLAVE,  
 RADULESCU

### MAJOR IN FRENCH

A major in **French** leading to a Bachelor of Arts degree requires demonstrated proficiency in listening, speaking, reading, and writing, and completion of at least 39 credits as follows:

1. *Core courses (27 credits)*
  - a. French 261 and 262
  - b. One course chosen from 195, 213, 215, 250, 251, 285, 286, and 295
  - c. Two courses in prerevolutionary literature chosen from 311, 313, 314, 315, and 395
  - d. Two courses in postrevolutionary literature chosen from 321, 322, 323, 324, 325, 326, 327, 328, and 396
  - e. One seminar chosen from 380, 381, 382, 383, and 397
  - f. One additional course numbered 195 or above
2. *Related courses (12 credits)*—completion of one of the following groups:
  - a. At least 12 credits in a non-Romance language or through the intermediate level in a non-Romance language not previously studied. Students who wish to work in French and another Romance language are advised to see the description of the Romance Language major below
  - b. 12 credits, with advance departmental approval, for courses in art, English, history, philosophy, politics, and literature in translation (except 258) or for any other courses pertinent to the French major, including French literature courses numbered 195 or above and beyond the 18 credits required in the core above

### MAJOR IN ROMANCE LANGUAGES

A major in **Romance languages** leading to a Bachelor of Arts degree consists of at least 33 credits as follows:

1. Completion of the core courses for either the French major or the Spanish major
2. Completion of the intermediate level or its equivalent in a second Romance language (French 162, 164, or Spanish 162, 164)
3. Six credits in the second language as follows:
  - a. if French, French 262 and one course chosen from French 250, 251 and 261.
  - b. if Spanish, a Peninsular course and a Spanish-American course, at least one of which must be a literature course. Complete one of the following three sequences: Spanish 207 and 208; Spanish 207 and 211; Spanish 208 and 212.

Romance languages majors need not complete the “related courses” requirement of either the French major or the Spanish major.

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

**FRENCH 111-112 (8 or 5)\*—Elementary French**

*Limited enrollment; departmental permission required. These courses are linked; the second must be completed to receive any credit toward degree requirements for the first. Emphasis on listening comprehension and speaking, with gradual introduction of reading and writing. Staff.*

*Fall-Winter*

**★FRENCH 161-162 (6)—Intermediate French**

*Prerequisite: French 112 or the equivalent in language skills. These courses are linked; the second must be completed to receive any credit toward degree requirements for the first. Individualized grammar review with practical application of listening, speaking, reading, and writing skills in the classroom. Students who have completed second-year proficiency in another language may take French 161 or 162 for degree credit with permission of the department head. Staff.*

*Fall, Winter*

**FRENCH 164 (3)—Advanced Intermediate French**

*Prerequisite: Departmental permission as a result of placement examination for entering students. An intensive review of all four skills—speaking, listening, reading and writing—for freshmen with a strong background in French. Staff.*

*Fall*

**FRENCH 195 (3)—Topics in Conversation and Culture**

*Prerequisites: French 162, 164 or equivalent and permission of the instructor. A third-year topics course offered when sufficient student interest is expressed and when departmental personnel are available. Possible topics: (1) French in the Washington and Lee media; (2) business French; (3) French publicity; (4) French phonetics. May be repeated for credit with permission and if the topics are different. Staff.*

*Fall, Winter*

**FRENCH 213 (3)—Atelier de conversation**

*Prerequisites: French 162, 164 or equivalent and permission of the instructor. Development of speaking skills pertaining to everyday communication. Acquisition and use of practical vocabulary. Development of pronunciation skills. Knudson.*

*Spring*

**FRENCH 215 (3)—Atelier de composition**

*Prerequisites: French 162, 164 or equivalent and permission of the instructor. Group-oriented and personalized instruction in written communication, including French grammar, vocabulary and stylistics. Koberstein.*

*Spring*

**FRENCH 250 (3)—Civilisation et culture françaises**

*Prerequisites: French 162, 164 or equivalent and permission of the instructor. A study of significant periods in French history from the Gauls to Revolution. Emphasis on economic, sociological and historical changes that shape present-day institutions and national identity. Readings, discussions and papers primarily in French for further development of communication skills. Frégnac-Clave.*

*Winter*

**FRENCH 251 (3)—Civilisation et culture françaises: La France d'aujourd'hui.**

*Prerequisites: French 162, 164 or equivalent and permission of the instructor. A study of modern France from the 19th century to present-day. Emphasis on economic, political and social issues as well as the arts. Readings, discussions and papers primarily in French for further development of communication skills. Frégnac-Clave.*

*Fall*

**FRENCH 261 (3)—Conversation et composition: cours avancé**

*Prerequisites: French 162, 164 or equivalent and permission of the instructor. Further development of conversational skills and beginning work in free composition, with such grammar review and word study as might be necessary. Staff.*

*Fall*

**★FRENCH 262 (3)—Introduction à la littérature française**

*Prerequisite: French 250, 251 or 261 or equivalent. An introduction to French literature and literary analysis based on a study of selected prose, poetry, and theater. Focus on textual analysis in composition and oral presentations. Staff.*

*Fall, Winter*

**FRENCH 285 (3)—Supervised Study Abroad**

(Alternate years)

*Prerequisites: French 162, 164 or equivalent and permission of the instructor. A period of direct exposure to the language, culture, and people of France. Students live for six weeks with French families in Paris. The program includes a broad spectrum of cultural activities, such as lectures by native authorities, attendance at the theatre and excursions to Versailles, Chartres, and the Loire Valley. Not only language majors but any students fulfilling the requirements are encouraged to apply. *Must be taken in conjunction with French 286, or with an equivalent project carried out in Paris and sponsored by some other department.* Staff.*

*Spring*

**FRENCH 286 (3)—Supervised Study Abroad**

(Alternate years)

*Prerequisites: French 162, 164 or equivalent and permission of the instructor. Supervised academic project mutually agreed upon beforehand by director and student, usually dealing with some aspect of the language, literature, culture or civilization of France. *Taken in conjunction with French 285.* Staff.*

*Spring*

**FRENCH 295 (3)—Atelier avancé de langue, littérature et culture**

*Prerequisites: French 262 or equivalent and permission of the instructor. A third-year topics or advanced grammar course. Possibilities include (1) advanced French grammar, phonetics or *theme et version*; (2) film production in French; (3) French business and government. May be repeated for degree credit with permission and if the topics are different. Staff.*

*Spring*

\*Students who have two or more entrance units in French will receive the lower credit indicated toward their degree requirements.

★[FRENCH 311 (3)—**Chefs-d'oeuvre de la littérature française du Moyen-Âge et de la Renaissance**]

(Fall 1999 and alternate years)

*Prerequisite:* French 262. An analysis of styles and themes in the genres of medieval and Renaissance French literature. Study focuses on the courtly romance or short story, medieval farce, Villon's poetry, Ronsard, Du Bellay, Rabelais' *Gargantua et Pantagruel*, Jodelle's *Cleopâtre captive*, Garnier's *Les Juives*, and Montaigne's *Essais*. *Fralin*.

★FRENCH 313 (3)—**Le Théâtre du 17ème siècle**

(Alternate years)

*Prerequisite:* French 262. A study of the origins of the theatre in France and its development through the 17th century, with emphasis on Corneille, Racine and Molière. *Fralin*.

Winter

★FRENCH 314 (3)—**Prose et poésie de la période classique**

(Alternate years)

*Prerequisite:* French 262. A study of the development of the novel during the 17th century supplemented by reading from poetry and prose literature. *Koberstein*.

Fall

★[FRENCH 315 (3)—**Les Romans de l'âge des lumières**]

(Winter 2000 and alternate years)

*Prerequisite:* French 262. Readings from the prominent novelists of the 18th century, including the philosophers Diderot, Rousseau and Voltaire as well as popular favorites such as Bernardin de St. Pierre and the Marquis de Sade. *Koberstein*.

★FRENCH 321 (3)—**La Poésie des 19ème et 20ème siècle**

(Alternate years)

*Prerequisite:* French 262. A presentation and analysis of major French poets and schools of the 19th and 20th centuries. *Radulescu*.

Winter

★[FRENCH 322 (3)—**La Prose romantique**]

(Not offered in 1998-99)

*Prerequisite:* French 262. A study of the novel in France from 1800 through the era of Hugo, Balzac and Stendhal. Investigation of the new sentimentalism and of reaction to existing socio-political structures as well as a definition of the romantic hero and heroine. *Koberstein*.

★FRENCH 323 (3)—**Le Roman français de 1850 à 1930**

(Alternate years)

*Prerequisite:* French 262. A study of the evolution of the French novel from Realism through Naturalism towards a new aesthetic in the early 20th century. Representative novelists will include Flaubert, Zola, Gide and Proust. *Lambeth*.

Fall

★FRENCH 324 (3)—**Contes et nouvelles depuis la Révolution**

(Alternate years)

*Prerequisite:* French 262. A partially individualized course combining study of the French short story with development of the skills in speaking and writing French. *Staff*.

Spring

★[FRENCH 325 (3)—**Le Théâtre français après 1930**]

(Winter 2000 and alternate years)

*Prerequisite:* French 262. Reading and discussion of the most important works in this genre written between 1930 and the present with special emphasis on Giraudoux, Sartre, Camus, and the Theatre of the Absurd. *Staff*.

★[FRENCH 326 (3)—**Le Roman français après 1930**]

(Fall 1999 and alternate years)

*Prerequisite:* French 262. Reading and discussion of the most important novels and short stories of the period, including works of Malraux, Mauriac, Saint-Exupéry, Sartre, Camus and Queneau. *Lambeth*.

★[FRENCH 327 (3)—**L'Histoire du cinéma français**]

(Spring 2000 and alternate years)

*Prerequisite:* French 262. A study of French cinema from its origins, concentrating on the golden age in the 1930's and the renewal of the Nouvelle Vague in the 1960's. *Lambeth*.

★FRENCH 328 (3)—**Théâtre de l'absurde, théâtre de la dérision**

*Prerequisites:* French 262 or equivalent and permission of the instructor. Reading and discussion of some of the main playwrights of avant-garde French theatre from Jarry to Beckett and Ionesco. The production and performance of one of the plays studied constitutes an important part of the course. Interested students must contact the professor during the winter term. *Radulescu*.

Spring

★[FRENCH 380 (3)—**Pagnol par rapport à Molière**]

(Winter 2000 and alternate years)

*Prerequisite:* Nine credits chosen from courses numbered between 311 and 328. A seminar emphasizing imagery and Molièresque elements in plays and novels of Marcel Pagnol. Study focuses on Pagnol's major works and on a selection of Molière's plays not examined in French 313. *Fralin*.

★[FRENCH 381 (3)—**Questions onomastiques**]

(Fall 1999 and alternate years)

*Prerequisites:* Nine credits chosen from courses numbered between 311 and 328. A survey of the development of French literature from the Renaissance to the 20th century focused on the functioning of the proper name. *Koberstein*.

★FRENCH 382 (3)—**Le Théâtre français de 1700 à 1930**

(Alternate years)

*Prerequisite:* Nine credits chosen from courses numbered between 311 and 328. The development of the French theatre during the 18th and 19th centuries, from the romantic drama of Hugo and Musset to the plays of the "Théâtre Libre." *Radulescu*.

Fall

★FRENCH 383 (3)—**Nouveau Roman et Nouvelle Vague**

(Alternate years)

*Prerequisite:* Nine credits chosen from courses numbered between 311 and 328. A study of the esthetic principles of the avant-garde in French literature and cinema of the 1950s and 1960s. Authors considered include Sarraute, Duras, Robbe-Grillet and Butor; directors will include Bresson, Resnais, Truffaut and Godard. *Lambeth*.

Winter

★[FRENCH 395 (3)—Lectures prérévolutionnaires]

(Offered when interest is expressed and departmental resources permit.) A study of French literary works before 1789, with the particular topic chosen by instructor or students. May be repeated for degree credit with permission and if the topics are different. *Staff.*

★[FRENCH 396 (3)—Lectures postrévolutionnaires]

(Offered when interest is expressed and departmental resources permit.) Readings in literature of the 19th and 20th centuries, with topic chosen by instructor or students. May be repeated for degree credit with permission and if the topics are different. *Staff.*

★[FRENCH 397 (3)—Séminaire avancé]

(Offered when interest is expressed and departmental resources permit.) Prerequisite: Nine credits chosen from courses numbered between 311 and 328. Topic chosen by instructor or student. May be repeated for degree credit with permission and if the topics are different. *Staff.*

**FRENCH 403 (3)—Directed Individual Study**

*Prerequisites:* At least nine credits of 300-level French and permission of the instructor. Nature and content of course to be determined by students' needs and by instructors acquainted with their earlier preparation and performance. May be repeated for degree credit with permission and if the topics are different. *Staff.*

**FRENCH 493 (3-3)—Honors Thesis**

Interested students should see a member of the French faculty by winter term of their junior year.

*Fall-Winter*

## GEOLOGY

Robinson Foundation

PROFESSORS SPENCER, SCHWAB  
ASSISTANT PROFESSOR HARBOR

### MAJORS

#### BACHELOR OF SCIENCE

A major in **geology** leading to a Bachelor of Science degree consists of 50 credits as follows:

1. Geology 160, 210, 310, 330, 350, and a comprehensive examination in geology; Chemistry 111, 112; Physics 111, 112, 113, 114
2. Geology 247 or 340
3. Additional courses to bring the total to 50 must be selected from among Biology 111, 112; Geology 108, 209, 247, 275, 340, 373, 376 (or an approved summer field course), 395, 396, 397, and 472 (four credits) or 493 (six credits)

Additional courses required as prerequisites for completion of the above include Geology 100 or 101 and Mathematics 101.

Independent majors in geophysics or engineering geology may be developed with guidance from the Geology Department for students interested in these areas of study.

#### BACHELOR OF ARTS

A major in **geology** leading to a Bachelor of Arts degree requires 40 credits as follows:

1. At least 26 credits in geology including at least 16 credits numbered 200 or above
2. Additional courses must be selected from among Accounting 201, 202; Biology 111 or higher; Chemistry 111 or higher; Computer Science 111 or higher; Economics 101, 102, 201; all engineering; all geology; Management 201, 221; all mathematics; Philosophy 108; Physics 111 or higher; Politics 230, 232

A major in **environmental studies in geology** is designed to provide general background in environmental studies with emphasis on geological aspects of the field. Graduate program in environmental studies and environmental sciences are offered at many universities. Some of the programs are centered around particular disciplines such as geology, geography, ecology, engineering, or oceanography. Some are concerned with public policy issues such as land use planning; others are truly interdisciplinary. Students who expect to undertake scientific work in environmental geology should complete the geology major leading to a Bachelor of Science degree. Students with an interest in environmental issues are advised to define their interests as precisely as possible and to consult with faculty members regarding major and course selection.