ARABIC

Department of Linguistics and Germanic, Slavic, Asian and African Languages

College of Arts and Letters

192H. Arts and Humanities Freshmen Seminar
Fall, Spring. 3(3-0) Interdepartmental with History of Art. R: Not open to freshmen and sophomores. Approval of department.

490. Independent Study
Fall, Spring. 1 to 6 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Not open to freshmen and sophomores. Approval of department.

491. Special Topics in Arabic Studies
Fall, Spring. 1 to 6 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Approval of department.

ARTS AND LETTERS

AL

College of Arts and Letters

493A. Arts and Letters Internship
Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. R: Not open to freshmen and sophomores. Approval of college.

493B. Arts and Letters Publications Internship
Fall, Spring, Summer. 2 to 4 credits. A student may earn a maximum of 8 credits in all enrollments for this course. Interdepartmental with History of Art. R: Not open to freshmen and sophomores. Approval of college.

493C. Museum Internship
Fall, Spring, Summer. 2 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. Interdepartmental with History of Art. R: Not open to freshmen and sophomores. Approval of college.

496. Museum Studies
Fall of even-numbered years. 3(3-0) Interdepartmental with History of Art. R: Not open to freshmen and sophomores. Activities, functions and organization of museums; the changing role of museums as cultural institutions.

497. Approaches to Museum Education
Summer. 3(0-0) R: Open only to seniors and graduate students. Theoretical and practical approaches to the design and development of interpretive materials and programs within museums. Design and development of research and projects.

498C. Museum Internship
Fall, Spring, Summer. 2 to 8 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of Department. Special topics supplementing regular course offerings proposed by faculty on group study basis.

499B. Multidisciplinary perspectives on health care and medicine, emphasizing linkages among the humanistic and scientific disciplines.

499C. Proseminar in Comparative Literature
Fall, 3(3-0) Interdepartmental with English, Romance Languages, and Linguistics and Languages. R: Approval of college. History and practice of comparative literature including foundational concepts and current directions.
250. Hanzi Writing System and Calligraphy
Spring, 3(3-0) P: CHS 101 or JPN 102 or approval of department. Structure and history of Chinese characters. Calligraphy. Use of Chinese dictionary.

259. Independent Study
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department. Special projects in an Asian Languages arranged by an individual student and a faculty member in areas supplementing regular course offerings.

401. East Asian Cultures
Fall. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P: IAH 211B or approval of department. Selected topics in the history and culture of China, Japan, and Korea. Topics vary.

410. Senior Thesis
Fall, Spring, 1 to 6 credits. A student may earn a maximum of 4 credits in all enrollments for this course. R: Open only to seniors in Asian Languages. Completion of Tier I writing requirement. Design and execute an original experiment or computation. A written and oral report of the research is required.

480. Research Methods
Fall, Spring, Summer. 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course. P: AST 801. Apprenticeship in astrophysical research; student will work closely with individual faculty member learning research techniques.

481. Introduction to Astrophysics
Fall. 3(3-0) Survey of contemporary astrophysics. Stellar evolution, the structure of the Milky Way, the properties of external galaxies, and cosmology.

490. Independent Study
Fall, Spring, Summer. 1 to 6 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Open only to juniors and seniors. Approval of department.

Special topics supplementing regular course offerings proposed by faculty on a group study basis.

ASTRONOMY AND ASTROPHYSICS

Department of Physics and Astronomy
College of Natural Science

201. Astrophysics and Astronomy I
Fall. 3(4-0) P: PHY 183 or PHY 183B or PHY 193H; MTH 132 or MTH 152H. Overview of the universe: the celestial sphere, orbits, spectra, the solar system, stars, and stellar evolution.

202. Astrophysics and Astronomy II
Spring. 3(3-0) P: AST 201; PHY 184 or PHY 184B or PHY 294H; MTH 254 or MTH 254H, or concurrently. Interstellar medium, the milky way, galaxies, and the large-scale structure of the universe. Coordinate systems, instruments, and data analysis.

301. Junior Research Seminar
Spring. 1(1-0) A student may earn a maximum of 4 credits in all enrollments for this course. R: AST 202. R: Completion of Tier I writing requirement.

Preparation and presentation of a review paper on a current topic in astronomy or astrophysics.

310. Directed Studies
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.

Individual study or project in astronomy or astrophysics under the direction of a faculty member.

401. Stars
Fall. 3(3-0) P: AST 202, PHY 331 or concurrently. Physical processes that determine the structure and evolution of stars. Results of stellar evolution theory. Stellar atmospheres. Observations of stars.

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