461. Studies in the Literature of Asia and the Asian Diaspora (W)
Spring, 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. Interdepartmental with English, Romance Languages, and Linguistics.
R: Not open to freshmen. Completion of Tier 1 writing requirement.

460. 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 projects in Asian Languages arranged by an individual student and a faculty member in areas supplementing regular course offerings.

471. Special Topics in Asian Languages
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.

ASIAN LANGUAGES

Department of Linguistics and Germanic, Slavic, Asian and African Languages
College of Arts and Letters

250. Hanzi Writing System and Calligraphy
Spring, 1(1-0) P: CHS 101 or JPN 102 or approval of department.

290. 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: Approval of department.
Special projects in an Asian Language arranged by an individual student and a faculty member in areas supplementing regular course offerings.

291. Special Topics in Asian Languages
Fall. 1 to 4 credits. A student may earn a maximum of 6 credits in all enrollments for this course.
R: Not open to students with credit in ASN 491.
Special topics supplementing regular course offerings proposed by faculty on a group study basis.

401. East Asian Cultures (W)
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. R: Completion of Tier 1 writing requirement.
Selected topics in the history and culture of China, Japan, and Korea. Topics vary.

402. Galaxies
Spring, 3(3-0) P: AST 401,PHY 481
Concepts and dynamics of the Milky Way, mass and luminosity distributions of galaxies, stellar populations, the interstellar medium, evolution of galaxies, active galactic nuclei.

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

800. 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.
Acquisitionist in astrophysical research. student will work closely with individual faculty member learning research techniques.

801. 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.

810. Galactic and Extragalactic Dynamics
Spring of odd-numbered years. 3(3-0) P: AST 901.
Transfer of radiation through plasmas and processes for emission and absorption of photons. Interpretation of the spectra of stars, interstellar medium, and galaxies.

820. Advanced Topics in Astrophysics (MATC)
Fall, Spring, 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course.
P: AST 801.
Advanced work in a specialized astrophysical topic.

830. Galactic and Extragalactic Dynamics
Fall of even-numbered years. 3(3-0) P: AST 801, PHY 820.
Implications of gravitational dynamics and stellar evolution on galactic and extragalactic systems.

840. Stellar Astrophysics
Spring of even-numbered years. 3(3-0) P: AST 801.

850. Electrodynamics of Plasmas
Spring of odd-numbered years. 3(3-0) Interdepartmental with Electrical Engineering and Physics. Administered by Electrical Engineering.
P: EE 305 or PHY 488.

860. Gravitational Astrophysics and Cosmology (MATC)
Fall, Spring, 3(3-0) A student may earn a maximum of 6 credits in all enrollments for this course.
Topics in general relativity, gravitational astrophysics, and cosmology.

870. Astronomical Instrumentation and Data Analysis
Fall of odd-numbered years. 3(3-0) P: AST 801.
Theory and techniques of astronomical data acquisition and analysis.