Astronomy and Astrophysics — Descriptions of Courses

402. Galaxies
Spring, 3(3-0)
P: AST 401, PHY 481.

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

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(3-0)
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. 4(3-0)
P: AST 201; PHY 184 or PHY 184B or PHY 294H; MTH 204 or MTH 254H, or concurrently.
Intermediate 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: AST 202. 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 311 or concurrently.
Physical processes that determine the structure and evolution of stars. Results of stellar evolution theory. Stellar atmospheres. Observations of stars.

Asian Languages — Descriptions of Courses

ASIAN LANGUAGES

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

250. Hand Writing System and Calligraphy Spring. 3(3-0)

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