

999. **Research**
Fall, Winter, Spring, Summer. Variable credit. Approval of department.

ENGINEERING **EGR**

College of Engineering

160. **Engineering Communications**
Fall, Winter, Spring. 4(1-6) MTH 108 or 111 or concurrently.

Engineering graphics, a means used by engineers to communicate their ideas to others. Freehand sketching, descriptive geometry, and graphical, numerical and computer problem solutions.

161. **Mechanical Drawing**
Fall, Winter, Spring. 2(0-4)

Lettering and use and care of instruments. Orthographic projection, working drawings, machine sketching and isometric drawing.

162. **Mechanical Drawing**
Fall, Winter, Spring. 2(0-4) 160 or 161.

Continuation of 161 with emphasis on freehand lettering and sketching, advanced working drawings.

200. **Technology and Society**
Winter. 3(3-0) ATL 111.

An attempt to describe and analyze portions of current technology and its desired and undesired consequences; an exploration of avenues for assessing such consequences for future technologies.

260. **Machine Drawing**
Fall, Winter, Spring. 3(0-6)

Advanced orthographic projection, detail, and assembly drawing, sections and conventions, tracings, illustration and other pictorial drawings of mechanical elements.

263. **Structural Drawing**
Winter. 3(0-6) An engineering graphics course.

A comprehensive study of space planning relative to residential and light-commercial interiors. Building materials, fixtures, and mechanical equipment will be studied with respect towards application and installation.

267. **Architectural Drafting I**
Fall, Winter, Spring. 3(0-6)

House construction detailing. Analysis and drawing of typical standard details.

268. **Descriptive Geometry**
Fall. 3(2-2) 160, 161.

Problems involving relations of points, lines, and planes. Intersections, developments, coplanar, and noncoplanar vectors.

270. **Computer Graphics**
Spring. 3(3-0) 160 or 161; CPS 110 or 120 or LBC 125; or approval of department.

Use of computer controlled display systems for the solution of multidimensional problems.

364. **Architectural Drafting II**
Winter. 3(0-6) 267.

Functional and standard procedure in the layout of floor plans in traditional and modern houses. Rendered plot plan and required details.

365. **House Planning**
Fall, Winter, Spring. 3(1-4)

Elementary house architecture. Drawing plans from sketches. Kitchen planning, house styles, elements of design, financing, heating, lighting.

366. **Architectural Perspective Drawing**
Fall. 3(0-6) Any engineering graphics course.

One-point and two-point perspective, revolved plan and measuring line methods. Pencil rendering, problems in shade and shadows. House model to scale, optional.

463. **Architectural Drafting III**
Spring. 3(0-6) 364 or 365.

Traditional and modern elevations. One- and two-point rendered perspective. Functional plans drawn in 364 or 365 required.

480. **Special Problems**
Fall, Winter, Spring, Summer. 1 to 4 credits. May re-enroll for a maximum of 8 credits. Approval of department.

ENGLISH **ENG**

College of Arts and Letters

091. **English for Foreign Students—Elementary**
Fall, Winter, Spring, Summer. Zero credit. (3(3-0) to 15(25-0))†. English language proficiency examination.

Spoken structures, pattern practice, reading, writing and laboratory in the English language for foreign students on the elementary level.

092A. **English for Foreign Students—Low Intermediate**
(092.) Fall, Winter, Spring, Summer. Zero credit. (3(5-0) to 15(25-0))†. English language proficiency examination.

Spoken structures, pattern practice, reading, writing and laboratory in the English language for foreign students on the low-intermediate level.

092B. **English for Foreign Students—High Intermediate**
(092.) Fall, Winter, Spring, Summer. Zero credit. (3(5-0) to 15(25-0))†. English language proficiency examination.

Spoken structures, pattern practice, reading, writing and laboratory in the English language for foreign students on the high-intermediate level.

093. **English for Foreign Students—Advanced**
Fall, Winter, Spring, Summer. Zero credit. (3(5-0) to 15(25-0))†. English language proficiency examination.

Spoken structures, pattern practice, reading, writing and laboratory in the English language for foreign students on the advanced level.

094. **English for Foreign Students—Supplementary**
Fall, Winter, Spring, Summer. Zero credit. (3(5-0) to 6(10-0))†. English language proficiency examination.

Composition in the English language for foreign students on the supplementary level.

101. **Freshman Composition I**
Fall. 4(4-0) Arts and Letters Freshmen only.

A student or experience-centered writing course that explores personal and public modes of writing and composing. An option to ATL for Arts and Letters students.

†See page A-2 item 3

102. **Freshman Composition II**
Winter. 5(5-0) Arts and Letters Freshmen only.
Continuation of 101.

200H. **Honors Work**
Fall, Winter, Spring. 1 to 16 credits. Approval of department.

201. **Nature of Language**
Fall, Winter, Spring, Summer. 3(3-0) ATL 113.

Various aspects of language—phonology and orthography; morphology, semantics and the lexicon; syntax; and dialects—with special reference to American English.

205. **Introduction to Shakespeare**
Fall, Winter, Spring. 3(3-0) ATL 113.

A study of selected plays illustrating the powers of England's greatest writer.

206. **Forms of Literature**
Fall, Winter, Spring, Summer. 3(3-0) Required of majors and minors. Open to Freshmen.

Major forms of prose fiction, designed to reveal artistic problems met and solved by these forms. Prepares students for advanced literary study by acquainting them with the conventions of various literary forms, by providing a critical vocabulary and by furnishing experience in reading and writing critical evaluations of outstanding literary works from all historical periods.

207. **Forms of Literature**
Fall, Winter, Spring, Summer. 3(3-0) Required of majors and minors. Open to Freshmen.

Major forms of drama, designed to reveal artistic problems met and solved by these forms.

208. **Forms of Literature**
Fall, Winter, Spring, Summer. 3(3-0) Required of majors and minors. Open to Freshmen.

Major forms of poetry, designed to reveal artistic problems met and solved by these forms.

213. **Expository Writing**
Fall, Winter, Spring, Summer. 3(3-0) ATL 113.

Practice in informative writing to develop mastery of a clear, accurate style and of practical, basic expository forms.

214. **Composition for Secondary English Teachers**
Fall, Winter Spring. 4(3-1) ATL 113; Sophomore English education majors or written approval of department.

Writing practice in various modes such as personal narrative and description, the familiar essay, drama, poetry, and fiction. Exercises in creative dramatics. Discussion of the process of composing and the teaching of oral and written composition in junior and senior high schools.

228A. **Fiction Writing**
Fall, Winter, Spring, Summer. 4(4-0) 206 and written approval of department.

The writing of short fiction. Classes and individual conferences. Approval to enroll requires a conference with the instructor and will usually be on the basis of manuscripts submitted to him.

228B. **Fiction Writing**
Fall, Winter, Spring, Summer. 4(4-0) Written approval of department.

The writing of fiction. Classes and individual conferences. Approval to enroll requires a conference with the instructor and will usually be on the basis of manuscripts submitted to him.