

## Course Catalog Introduction

*Answer the following questions before we begin.*

1. Have you ever heard of a “course catalog”? If so, what is it? If not, what do you think it is?
2. As a university student, how might you use the course catalog?
3. Do you know where to find the course catalog? If so, where? If not, where do you think you might find it?

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*Now that we have discussed the course catalog together, answer the following questions.*

1. What is the course catalog?
2. As a university student, how might you use the course catalog?
3. Where can you find the course catalog?

## Course Catalog Activity

With your group, identify the knowledge, skills, or experience you would gain from taking these classes. Also identify if any pre-requisites are required. This will help you decide on classes in the future when necessary.

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*We will do the first three together. You will complete the rest of the courses with your group. If you do not finish, it will be homework.*

**POLS 400G Comparative Public Policy.** (3) The course will examine the public policy process and public policy outcomes using a comparative perspective. It will analyze different policy areas in diverse contexts (e.g. industrial and developing countries) and in selected cases in the Americas, Europe and Asia. *Prerequisites: POLS 267, 300 or 302, or permission of instructor.*

**ECON 435G Comparative Capitalist Systems.** (3) A study of the process of transition from socialism to capitalism to include a study of the various forms of capitalism practiced by the major industrialized capitalist nations. The emphasis of the course is on actual transition processes and case studies. *Prerequisite: ECON 232.*

**EIS 430G Methods and Materials for Teaching in Bilingual Programs.** (3) Acquaints students with methodology and materials, with instruction in the preparation of audio and visual teaching aids, lesson plans, objectives, and the inquiry teaching methods for the bilingual/ESL classroom. Portion of content presented in Spanish. Clinical experience-15 hours required. A grade of C or higher must be earned for teacher licensure. Proficiency in Spanish required.

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**EIS 435G Cultural Studies of Second Language Learners in the Classroom.** (3) The study of historical and contemporary social and cultural issues affecting selected ethnic groups, with particular emphasis on the impact of culture, learning, and schooling on second language learners in US schools. Clinical experience-15 hours required.

**MGT 445G Organization Development.** (3) Examines current models and methods for bringing about change in organizations. Emphasizes understanding organizations as complex adaptive systems. Provides knowledge and practical tools to promote and maintain system viability across the dynamic contexts facing modern organizations. *Prerequisite: MGT 350 or permission of the instructor*

**CS 522 Advanced Database Design and Administration.** (3) Advanced relational database concepts. This course will examine topics such as relational database management system design (RDBMS), including discussion of the major components of a RDBMS; query optimization strategies and cost estimation techniques; active databases, advanced transaction processing; and concurrency control. *Prerequisite: CS 470G.*

**CS 465G Computer Graphics.** (3) Introduction to computer-generation of graphs and pictures, using both character and pixel graphics methods, in two and three dimensions. Animation techniques, CAD methods. Computer lab projects. *Prerequisite: CS 351 or equivalent.*

**PHYS 439G Physics Methods.** (3) Preparation for student teaching. Includes analysis of objectives, new approaches, development of laboratory experiences, resources and utilization of instructional materials, test and evaluation, and pre student-teaching instructional experiences. *Prerequisites:* *Permission of instructor*

**ENGR 330 Engineering Economics.** (3) This course will explain and demonstrate the principles and techniques of engineering economic analysis as applied in different fields of engineering. This course includes economic alternatives for engineering projects, decision making analysis tools and simulations. *Prerequisite: ECON 231 and junior standing.*

**FCS 331 Consumer Economics.** (3) Inter-relationship of environments and the consumer. Consumer wants, marketing, buying practices, labels, standards, and protective legislation which affect the consumer. *Prerequisites: 3 s.h. of Economics; junior standing or above or permission of the instructor.*

**MATH 391 Writing in the Mathematical Sciences.** (1) Issues of technical writing and the effective presentation of mathematics in formal and informal formats. Instruction and practice in writing. Co-registration in an approved 400-level mathematics or statistics course is required. Writing Instruction in the Discipline (WID) course. *Prerequisites: MATH 231, 311, and 341; ENG 280. Co-requisite: MATH 411, 421, 430, 435, 481 or STAT 471.*

**MATH 552 Scientific Computing.** (3) Design, analysis, and MATLAB or Mathematica implementation of algorithms for solving problems of continuous mathematics involving linear and nonlinear systems of equations, interpolation and approximation, numerical differentiation and integration, and ordinary differential equations with a significant lean toward applications. *Prerequisites: MATH 311 and MATH 333, or equivalents.*