

Proposal Presentation

Red Pocket

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Presentation Agenda

1. Project overview/ purpose
2. How the program will work
3. Software development process
 - ❑ course info collecting
 - ❑ data storage
 - ❑ user data collecting
 - ❑ schedule showing

Project Overview

Goal:

Given selected courses, generate all possible course schedules that ensure each course valid term(s) and correct position in a sequence.

Source of Data:

University of Chicago Course Catalog: terms offered, prerequisites, requirements of a program for major and minor

Inputs

Major, minor, electives

Courses to complete

Start term

End term

Outputs

Pass:

All possible course schedules

-- only know terms offered

-- parallel sequences

Fail: TBD

Course Info Collecting

- ❑ Crawling catalogue pages
- ❑ Major, minor, general education
 - ❑ Ex. Economics
- ❑ Requirements, electives, opening term, prerequisites, sequence
- ❑ Data storage. Ex. csv, SQL

Summary of Requirements

GENERAL EDUCATION		
One of the following:		200
MATH 13100-13200	Elementary Functions and Calculus I-II	
MATH 15100-15200	Calculus I-II	
MATH 16100-16200	Honors Calculus I-II	
Total Units		200

MAJOR		
One of the following:		100
MATH 13300	Elementary Functions and Calculus III *	
MATH 15300	Calculus III *	
MATH 16300	Honors Calculus III *	

[Program of Study](#) | [Program Requirements](#) | [Summary of Requirements](#) | [Sample Programs](#) | [Grading](#) | [Honors](#) | [Preparation for PhD Programs in Economics](#) | [Courses](#)

Department Website: <http://economics.uchicago.edu>

Program of Study

Electives

Students choose a minimum of four additional economics courses to broaden their exposure to areas of applied economics or economic theory. Of the BA degree's four elective requirements, three must be economics courses offered by the University of Chicago. These courses must have a higher course number than [ECON 20300](#) The Elements of Economic Analysis IV.

One of the following courses may count as an outside elective:

Computer Science		
CMSC 10600	Fundamentals of Computer Programming II	100
CMSC 12100	Computer Science with Applications I	100
CMSC 12200	Computer Science with Applications II	100
CMSC 15100	Introduction to Computer Science I	100

CMSC 12100. Computer Science with Applications I. 100 Units.

This course is the first in a three-quarter sequence that teaches computational thinking and skills to students in the sciences, mathematics, economics, etc. The course will cover abstraction and decomposition, simple modeling, basic algorithms, and programming in Python. Applications from a wide variety of fields serve both as examples in lectures and as the basis for programming assignments. In recent offerings, students have written programs to simulate a model of housing segregation, determine the number of machines needed at a polling place, and analyze tweets from presidential debates.

Instructor(s): A. Rogers, B. Sotomayor Terms Offered: Autumn

Prerequisite(s): Placement into MATH 15200 or higher, or by consent.

Note(s): This course meets the general education requirement in the mathematical sciences.

User Data Collecting

ENROLLMENT QUARTER 2016 FALL START QUARTER 2016 FALL
END QUARTER 2020 FALL

MAJOR Economics COURSE PREFERRED

MINOR Anthropology COURSE PREFERRED

OTHER INTERESTS Art history COURSE PREFERRED

GENERAL EDUCATION INTEREST Sociology COURSE PREFERRED

THE NUMBER OF COURSE INTENDED TO TAKE 4

COURSE COMPLETED MATH 13100, ECON 20000, ANTH 21107

SUBMIT

Show the Schedule

SHUFFLE SCHEDULE

SCHEDULE ONE

17 Spring	17 Fall	18 Winter	18 Spring	18 Winter	19 Spring	19 Winter	19 Fall	20 Spring	20 Winter	20 Fall
MATH 13200	MATH 13300	ECON 20300	ANTH 21420	STAT 23400	MATH 20500	STAT 26100	ANTH 20702	ANTH 21015	ANTH 21201	ANTH 20225
ECON 20100	ECON 20200	MATH 19520	MATH 19620	ECON 21000	CMSC 10100	ANTH 20701	ARTH 14000	ARTH 29600	ARTH 29800	ANTH 21251
CMSC 12100	CMSC 12200	CMSC 12300	ARTH 19700	ANTH 29700	ANTH 29900	ECON 22000	ECON 23000	MATH 20600	MATH 20800	ECON 24000
SOCI 11100	SOCI 11200	SOCI 11300	SOCI 20000	ARTH 19800	SOCI 20002	ARTH 20000	SOCI 20230	SOCI 20440	ECON 23001	SOCI 20560

Questions?