

Student Name: _____

Advisor: _____

Date: _____



Computer Science + Economics Major (CS+ECON) BSLAS requirements worksheet

This is a guide for course planning in the CS+Econ Major and is not intended to convey graduation requirements in totality.

Please see Computer Science and Economics Academic Advisors, and your LAS Records Officer throughout college to confirm requirement completion.

Schedule Econ Appointments: my.atlas.illinois.edu/advising/

Econ information: www.economics.illinois.edu/undergrad/info/

General Education Requirements

Composition I

RHET 105; CMN 111 & 112; ESL 111 & 112; or ESL 115

Advanced Composition _____

Completed AFTER Composition I

Quantitative Reasoning I & II

Typically fulfilled by Calculus I & II

Western Cultures (1 Course) _____

Non-Western (1 Course) _____

US Minority (1 Course) _____

Students Entering Prior to Fall 2018 only need 1 course for Non-Western OR U.S. Minority Culture

Language Other than English

Completion of 4th Level of one; or 3rd Level of two

Humanities & Arts (6 Hours) _____

Historical & Philosophical Perspectives or Literature & Arts

Social & Behavioral Sciences (6 Hours) _____

Typically fulfilled by ECON 102 & 103

Natural Sci. & Tech. (6 Hours) _____

Life Sciences or Physical Sciences

Additional Major Requirements

MATH 220 or 221 Calculus I

No Substitutions; Prerequisite: Current ALEKS Math Placement Score

MATH 231 Calculus II

No Substitutions; Prerequisite: MATH 220 or 221

MATH 225 (Intro to Matrix Theory) or MATH 257 (Linear Algebra w/ Computational Applications)

or MATH 415 (Applied Linear Algebra) or MATH 416 (Abstract Linear Algebra)

Graduation Requirements

Earned Hours: _____

Hours in Progress: _____

Total Hours: _____ (Earned + In-Progress)

Needs: _____ Hours

60 Hours at ILLINOIS. Remaining: _____

21 Advanced Hours (300/400-level) at ILLINOIS. Remaining: _____

96 Hours in LAS (up to 24 count outside LAS). Outside LAS: _____

120 Hours Minimum to Graduate

Minimum ILLINOIS GPA 2.00/4.00 Required (Overall & Major)

ECON Courses Major Requirements

ECON 102 Microeconomic Principles

ECON 103 Macroeconomic Principles Substitution

ECON 202 Economic Statistics I

Prerequisite: Calculus

ECON 203 Economic Statistics II

Prerequisite: ECON 202 & Calculus

ECON 302 Intermediate Micro Theory

Prerequisite: ECON 102 & Calculus

Additional ECON Advanced 300/400-Level Courses (12 Hours)

ECON _____

ECON _____

ECON _____

ECON _____

CS Course Major Requirements

CS 100 Freshman Orientation

CS 124 Intro to Computer Science I

CS 128 Intro to Computer Science II

Prerequisite: CS 124 or CS 125

CS 173 Discrete Structures

Prerequisites: CS 124 or 125 & MATH 220 or 221

CS 225 Data Structures

Prerequisites: CS 125 or 128 & 1 OF: CS 173 or MATH 213/347/412/413

CS 222 Software Design Lab

Prerequisites: CS 128 & Credit or concurrent enrollment in CS 225

CS 374 Introduction to Algorithms & Models of Computation

Prerequisites: CS 225 & either CS 173 or MATH 213

CS 421 Programming Languages & Compilers

Prereqs: CS 233 or 240 & CS 374 & 1 OF: MATH 225/257/415/416 or ASRM 406

Choose one of the following combinations:

Option 1

CS 233 Computer Architecture

Prerequisites: CS 125 or 128 & CS 173 or Math 213 & Credit or concurrent enrollment in CS 225

CS 241 System Programming

Prerequisites: CS 225 and CS 233

OR

Option 2

CS 240 Introduction to Computer Systems

Prerequisite: CS 225

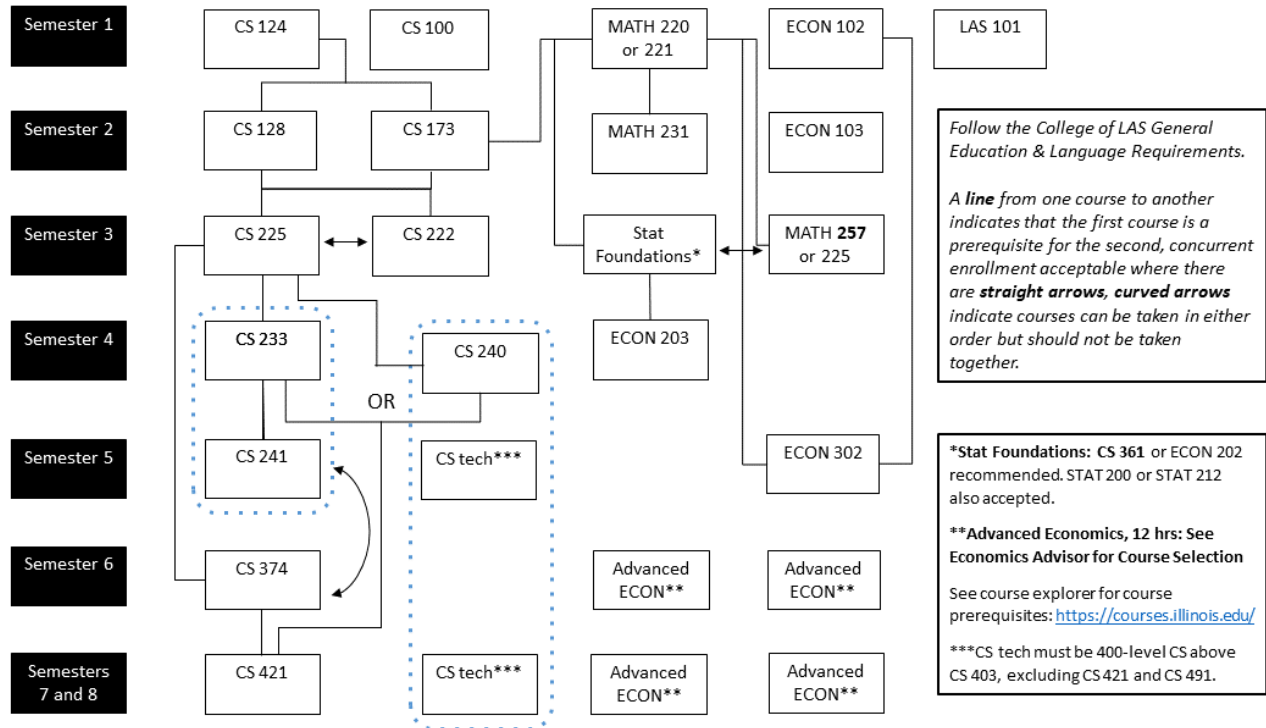
CS 4__

CS 4__

Expected Graduation Date: _____

NOTES: _____

Curriculum Flow Chart for Computer Science + Economics



Declaring CS + ECON*:

On-campus students who would like to declare this major must meet the following criteria:

- **Grade of B- or higher in ECON 102, ECON 103, ECON 202, and ECON 203**
 - ECON 202 or substitute – see ECON website.
 - At least 2 courses must be taken at ILLINOIS
 - Individual grades for all Econ courses taken must be a B- or higher
 - All ECON courses taken at the time of declaring are considered
- **Grade of B- or higher in MATH 231**
- **Grade of B+ or higher in CS 173 and CS 225**
 - Grade of B+ or higher in all CS courses taken at ILLINOIS
 - Individual grades used (not a combined GPA)
 - Students who earn proficiency or transfer credit in CS 173 and/or 225 must complete CS 233 then CS 241 at ILLINOIS with a minimum grade of B+
- **Cumulative GPA of 3.50 or higher**

*Students must be approved for transfer to the CS+X majors via a portfolio application process; meeting the course, grade, and GPA standards does not guarantee admission.

Visit the LAS Website for More Information: <http://www.las.illinois.edu/students/programs/declaring/>

Visit Econ Website for Additional Information:

<https://economics.illinois.edu/academics/undergraduate-program/majors-minor/cs-econ>

and

<https://cs.illinois.edu/academics/undergraduate/degree-program-options/cs-x-degree-programs>