

Student Name: \_\_\_\_\_

Advisor: \_\_\_\_\_

Date: \_\_\_\_\_



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

*This is a guide for course planning in the 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/](http://my.atlas.illinois.edu/advising/)*

*Econ information: [www.economics.illinois.edu/undergrad/info/](http://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)** \_\_\_\_\_
- Language Other than English**  
*Completion of 4<sup>th</sup> Level of one; or 3<sup>rd</sup> 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*

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

## 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 Introduction to Matrix Theory**  
*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
  - 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 400-level (12 Hours)**
- ECON \_\_\_\_\_
  - ECON \_\_\_\_\_
  - ECON \_\_\_\_\_
  - ECON \_\_\_\_\_

## CS Course Major Requirements

- CS 100 Freshman Orientation
- CS 125 Intro to Computer Science
- CS 126 Software Design (CS 242 for transfers- prereq 225)  
*Prerequisite: CS 125*
- CS 173 Discrete Structures  
*Prerequisites: CS 125 & MATH 220 or 221*
- CS 225 Data Structures  
*Prerequisites: CS 125 & CS 173*
- CS 233 Computer Architecture  
*Prerequisites: CS 125 & CS 173; Credit or concurrent enrollment in CS 225*
- CS 241 System Programming  
*Prerequisites: CS 225; Credit or concurrent enrollment in CS 233*
- CS 374 Algorithms & Models of Computation  
*Prerequisites: CS 225; MATH 225 or MATH 415*
- CS 421 Programming Languages & Compilers  
*Prerequisites: CS 233 & CS 373*

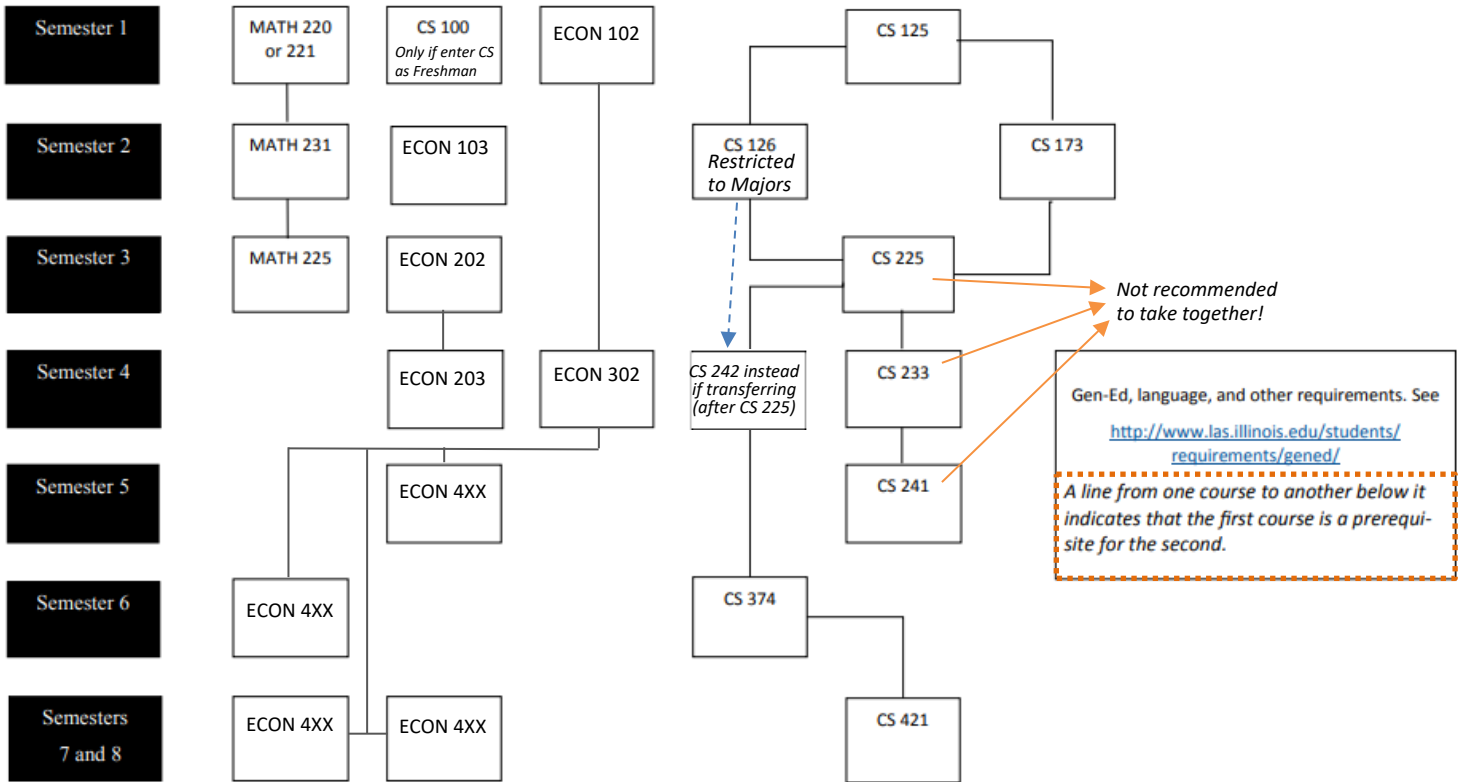
Expected Graduation Date: \_\_\_\_\_

NOTES: \_\_\_\_\_

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\_\_\_\_\_

## Curriculum Flow Chart for the Computer Science + X Majors



If credit is earned for CS 225 and not yet taken CS 126, students must instead take CS 242 to meet degree requirements.

### 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 each course 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>