

COMPUTER SCIENCE UNDERGRADUATE PATHWAY

This program will prepare students to enter the next semester of a bachelor's degree program in Computer Science at Saint Louis University.

Curriculum Overview

The International Year One curriculum consists of English, mathematics and general elective courses. Other courses require permission from the Pathway Coordinator.

Program Entry Requirements

1-semester (Accelerated) Pathway

- Secondary/high school degree or equivalent
- 2.50 minimum GPA on 4.0 scale
- Language requirement:
 - TOEFL iBT 75 (17 subscores in reading and writing) or
 - IELTS 6.0 (5.5 subscores in reading and writing) or
 - Password 6.5 or
 - PTEA 50

2-semester (Standard) Pathway

- Secondary/high school degree or equivalent
- 2.50 minimum GPA on 4.0 scale
- Language requirement:
 - TOEFL iBT 60 (13 subscores in reading and writing) or
 - IELTS 5.5 (5.0 subscores in reading and writing) or
 - Password 6 or
 - PTEA 44 or
 - Completion of AE Level 4

3-semester (Comprehensive) Pathway

- Secondary/high school degree or equivalent
- 2.50 minimum GPA on 4.0 scale
- Language requirement:
 - TOEFL iBT 50 (10 subscores in reading and writing) or
 - IELTS 5.0 (4.5 subscores in reading and writing) or
 - Password 5.5 or
 - PTEA 38 or
 - Completion of AE Level 3

Learning Outcomes

1. Students will be able to execute a variety of verbal tasks in academic settings using English that can be understood by those unaccustomed to non-native speakers.
2. Students will be able to execute a variety of written tasks in academic settings using English that can be understood by those unaccustomed to non-native writers.
3. Students will be able to apply a process-driven approach to completing verbal and written academic assignments in multiple disciplines and modes.
4. Students will be able to deploy reflective and self-regulated learning strategies.

Requirements

1-semester (Accelerated) Pathway

Code	Title	Credits
Academic English Requirement		
EAP 1200	Academic Writing and Editing Skills II	3
EAP 1210	Pathway Recitation Lab II	1
EAP 1220	Academic Reading and Study Skills II	3
EAP 1010	Pathway Recitation Lab I	1
Mathematics Requirements (1 course) (p. 2)		3-4
<i>Students are placed in the appropriate mathematics class based on an online placement test. MATH 1520 is recommended.</i>		
General Elective Requirement (1 course) (p. 2)		3
UNIV 1010	Enhancing First-Year Success	1
Computer Science Elective Requirement (1 course) (p. 2)		3
Total Credits		18-19

2-semester (Standard) Pathway

Code	Title	Credits
Academic English Requirement		
EAP 1000	Academic Writing and Editing Skills I	3
EAP 1010	Pathway Recitation Lab I	1
EAP 1020	Academic Reading and Study Skills I	3
EAP 1030	Academic Presentations and Speaking Skills	1
EAP 1200	Academic Writing and Editing Skills II	3
EAP 1210	Pathway Recitation Lab II	1
EAP 1220	Academic Reading and Study Skills II	3
Mathematics Requirements (2 courses) (p. 2)		6-8
<i>Students are placed in the appropriate mathematics class based on an online placement test. The recommended Mathematics sequence is MATH 1510 and MATH 1520</i>		
General Elective Requirement (2 courses) (p. 2)		6
UNIV 1010	Enhancing First-Year Success	1
Computer Science Elective Requirement (1 course) (p. 2)		3
Total Credits		31-33

3-semester (Comprehensive) Pathway

For the Comprehensive Pathway students are required to take the below courses followed by the Standard 2-semester Pathway.

Code	Title	Credits
Academic English Requirement		
EAP 0810	Reading Level 4: High Intermediate	3
EAP 0820	Writing Level 4: High Intermediate	3
EAP 0830	Grammar Level 4: High Intermediate	3
EAP 0860	Contemporary Issues: High Intermediate	3
EAP 1210	Pathway Recitation Lab II	1
Mathematics Requirements (1 course) (p. 2)		3
<i>Students are placed in the appropriate mathematics class based on an online placement test. MATH 1200 is recommended.</i>		
Total Credits		16

Mathematics Requirements

Code	Title	Credits
MATH 0260	Intermediate Algebra ¹	3
MATH 1200	College Algebra	3
MATH 1320	Survey of Calculus	3
MATH 1400	Pre-Calculus	3
MATH 1510	Calculus I	4
MATH 1520	Calculus II	4

¹ This course does not count towards the degree.

General Elective Requirements

Code	Title	Credits
FPA 1000	Intro to the Arts	3
POLS 1000	Introduction to Politics	3
POLS 1600	Introduction to International Politics	3
THEO 1000	Theological Foundations	3
WGST 1900	Introduction to Women's and Gender Studies	3

Computer Science Elective Requirement

Code	Title	Credits
CSCI 1010	Introduction to Computer Science: Principles	3
CSCI 1030	Introduction to Computer Science: Game Design	3
CSCI 1040	Introduction to Computer Science: Mobile Computing	3
CSCI 1050	Introduction to Computer Science: Multimedia	3
CSCI 1060	Introduction to Computer Science: Scientific Programming	3
CSCI 1060	Introduction to Computer Science: Scientific Programming	3
CSCI 1070	Introduction to Computer Science: Taming Big Data	3
CSCI 1080	Introduction to Computer Science: World Wide Web	3
CSCI 1090	Introduction to Computer Science: Special Topics	3

Continuation Standards

Earn a 2.70 overall grade point average (GPA) with no grades below a C.

Progression Requirements

- Minimum 2.70 cumulative grade point average (GPA).
- Grade of B or better in all classes counting toward major.
- No C-/D/F/W/I/P/NP/S/U grades.
- Writing portfolio.

Roadmap

Roadmaps are recommended semester-by-semester plans of study for programs and assume full-time enrollment unless otherwise noted.

Courses and milestones designated as critical (marked with !) must be completed in the semester listed to ensure a timely graduation. Transfer credit may change the roadmap.

This roadmap should not be used in the place of regular academic advising appointments. All students are encouraged to meet with their

advisor/mentor each semester. Requirements, course availability and sequencing are subject to change.

1-semester (Accelerated) Pathway

Course	Title	Credits
Year One		
Fall		
EAP 1200	Academic Writing and Editing Skills II	3
EAP 1220	Academic Reading and Study Skills II	3
MATH 1510	Calculus I	4
CSCI 1000-1099	Introduction to Computer Science	3
	General Elective	3
EAP 1010	Pathway Recitation Lab I	1
EAP 1210	Pathway Recitation Lab II	1
UNIV 1010	Enhancing First-Year Success	1
	Credits	19
	Total Credits	19

2-semester (Standard) Pathway

Course	Title	Credits
Year One		
Fall		
EAP 1000	Academic Writing and Editing Skills I	3
EAP 1020	Academic Reading and Study Skills I	3
EAP 1030	Academic Presentations and Speaking Skills	1
MATH 1510	Calculus I (or higher)	4
	Select one of the following:	3
POLS 1000	Introduction to Politics	
POLS 1600	Introduction to International Politics	
THEO 1000	Theological Foundations	
EAP 1010	Pathway Recitation Lab I	1
EAP 1210	Pathway Recitation Lab II	1
UNIV 1010	Enhancing First-Year Success	1
	Credits	17
Spring		
EAP 1200	Academic Writing and Editing Skills II	3
EAP 1220	Academic Reading and Study Skills II	3
MATH 1520	Calculus II (or higher)	4
CSCI 1000-1099	Introduction to Computer Science	3
	Select one of the following:	3
FPA 1000	Intro to the Arts	
SOC 1100	Introduction to Sociology	
WGST 1900	Introduction to Women's and Gender Studies	
EAP 1010	Pathway Recitation Lab I	1
EAP 1210	Pathway Recitation Lab II	1
	Credits	18
	Total Credits	35

3-semester (Comprehensive) Pathway

For the Comprehensive Pathway students take the following semester followed by the Standard 2-semester Pathway.

Course	Title	Credits
Year One		
Fall		
!EAP 0810	Reading Level 4: High Intermediate	3
!EAP 0820	Writing Level 4: High Intermediate	3
!EAP 0830	Grammar Level 4: High Intermediate	3
!EAP 0860	Contemporary Issues: High Intermediate	3
! Need Recitation Number		1
MATH 1200	College Algebra	3
	Credits	16
	Total Credits	16