

Education and Computing

The Education and Computing minor aims to apply skills and knowledge of computer programming and STEM pedagogy to issues in education and society. The Education and Computing minor will support students who plan to enter research, policy and teaching in STEM education.

units required for minor: 18	units required for specialization: 10	minor code: EDCO	department: ITP
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Skills

- » Java
- » Python
- » Teaching
- » Leadership
- » Block-based programming logic
- » Computational and algorithmic thinking

Careers

- » STEM Teacher
- » K-12 Administrator
- » Non-Profit Administration

Policies

- » All minors at USC need **16 units** that only meet minor requirements and do not meet any other major, minor, or GE requirement.
- » All courses completed for your minor or specialization must be completed for a **letter grade**.
- » You must earn a **2.0 minimum** cumulative GPA in the courses completed for your minor or specialization.

 itpadvising@usc.edu	 itp.usc.edu	 Schedule appointment
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Minor requirements

Core requirements (18 units):

ITP-115 "Programming in Python" (2 units)

ITP-330 "Computational Thinking Through Programming" (4 units)

[corequisite: ITP-115 or ITP-165 or CSCI-102]

EDUC-435 "Education and Society Curriculum and Pedagogy" (4 units)

EDUC-436 "Application of Mathematics" (4 units)

ITP-430 "Computing Education Capstone" (4 units)

[prerequisite: (ITP-115 and ITP-330) and (EDUC-435 or EDUC-436)]

Specialization requirements

Core requirements (10 units):

ITP-115 "Programming in Python" (2 units)

ITP-330 "Computational Thinking Through Programming" (4 units)

[corequisite: ITP-115 or ITP-165 or CSCI-102]



Choose one of the following:

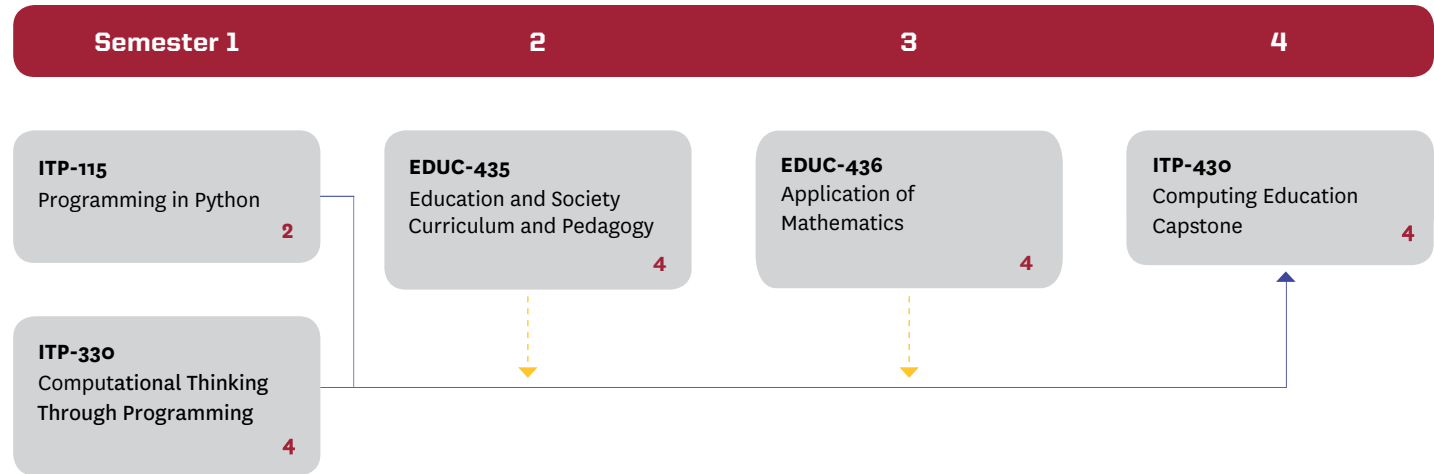
EDUC-435 "Education and Society Curriculum and Pedagogy" (4 units)


EDUC-436 "Application of Mathematics" (4 units)

EDUCATION AND COMPUTING SEQUENCING & COURSE PLAN

LEGEND

-  Prerequisite
-  Prerequisite depends on course selection
- 1-4** Units or special notes



 **Make sure you consult with your major advisor about how best to incorporate the requirements for your minor with your major and general education requirements. You must complete a pre-advisement course plan before scheduling an appointment with a minor advisor.**

PRE-ADVISEMENT COURSE PLAN

SEMESTER	YEAR	COURSE	UNITS