

Programming and Software Development AAS

Pathways Common Core

A. Required Core: 12 credits

English: 6 credits

ENG101 English Composition I
(ENA101 or ENC101 depending on placement scores)

ENG102 Writing through Literature

Mathematical and Quantitative Reasoning: 3 credits

MAT115 College Algebra & Trigonometry
(MAT117 Algebra & Trigonometry depending on placement scores)

MAT120 Elementary Statistics
(MAT119 depending on placement scores)

***Students are advised to take MAT115 as it is pre-requisite for MAT200 which is required.**

Life and Physical Sciences: 3 credits

Select one of the following:

SCB101 Topics in Biological Sciences

SCB206 Introduction to Neuroscience

SCC101 Topics in Chemistry

SCC 102 Chemistry of Photography

SCP101 Topics in Physics

SCP105 Life in the Universe

SCP140 Topics in Astronomy

B. Flexible Core: 9 credits

Select one course from the three of five flexible core categories

World Cultures and Global Issues

US Experience its Diversity

Creative Expression

Individual and Society

Scientific World

Students are advised to select one Urban Study course to complete college requirement. To complete the degree requirements from the Flexible Core, students are advised to select courses from the recommended course selections listed on the program website. Note: Student can select only two courses from any one discipline.

***Students are advised to take MAT200 under scientific world as it is pre-requisite for MAC101 which is required.**

Program core: 39 credits

Math, Engineering, and Computer Science

CSF101 First Year Seminar for
Computer Science 2

MAC101 Introduction to Computer Science 3

MAC109 Introduction to Visual Programming 3

MAC110 Systems Analysis and Design 3

MAC250 Database Concepts and Programming 3

MAC232 UNIX Network Operating Systems 3

MAC221 App Development for iOS 3

MAC190 Object-Oriented Programming 3

MAC220 App Development for Android Devices 3

MAC125 Advanced C++ Programming 3

MAC280 Game Programming 3

MAC 172 Web development I 3

MAC 272 Web development II 4

Total 60 Credits

Programming and Software Development Pre-Requisite Chart

updated December 5, 2017

