Computing in the Arts Major with Concentration in Music Requirements  
Catalog Year: 2015-16  
Degree: Bachelor of Arts  
Credit Hours: 52+

“PR” indicates a pre-requisite. “CO” indicates a co-requisite.

Courses within this major may also satisfy general education requirements. Please consult http://registrar.cofc.edu/general-edu for more information.

Required Courses

Choose one of the following:

☐ CITA 120 Animation and Virtual Worlds (cross-listed with CSCI 120) (3) PR: None

OR

☐ CITA 180 Computers, Music, and Art (cross-listed with CSCI 180) (3) PR: None

Required CITA Courses

☐ CITA 280 Game Programming (cross-listed with CSCI 280) (3) PR: CSCI/CITA 120 or CSCI/CITA 180, and ‘C- or better in CSCI 220; or instructor permission

☐ CITA 395 CITA Seminar (3) PR: CSCI/CITA 280, C- or better in CSCI 221, 9 credit hours in an art concentration

☐ CITA 495 CITA Seminar (3) PR: CITA 395, C- or better in CSCI 230

Required CSCI Courses

☐ CSCI 220 Computer Programing I (3) PR: CSCI 120 or CSCI 180 or MATH 111 or higher or department permission; CO: CSCI 220L

☐ CSCI 220L Computer Programing Lab I (1) CO: CSCI 220

☐ CSCI 221 Computer Programing II (3) PR: CSCI 220 with a C- or better, CSCI 220L with a C- or better; CO or PR: MATH 207

☐ CSCI 230 Data Structures and Algorithms (3) PR: CSCI 221 with a C- or better; CO: MATH 207

CSCI Elective Requirement: Select 6 credit hours from the following:

☐ ______________  ☐ ______________  ☐ ______________

☐ CSCI 250 Introduction to Computer Organization and Assembly Language Programming (3) PR: CSCI 220 with a C- or better, CSCI 220L with a C- or better; CO or PR: MATH 207

☐ CSCI 315 Service-Side Web Programming (3) PR: CSCI 215, CSCI 221

☐ CSCI 320 Programming Language Concepts (3) PR: CSCI 230 with a C- or better, MATH 207

☐ CSCI 325 Functional and Logic Programming (3) PR: CSCI 221 with a C- or better, MATH 207

☐ CSCI 350 Digital Logic and Computer Organization (3) PR: CSCI 250 with a C- or better; PR or CO: MATH 307

☐ CSCI 360 Software Architecture and Design (3) PR: CSCI 230 with a C- or better; CO or PR: COMM 104

☐ CSCI 380 User Interface Development (3) PR: CSCI 221 with a C- or better, MATH 307

☐ CSCI 399 Tutorial (3, Repeatable up to 12) PR: Junior standing, tutor permission, department chair permission

☐ CSCI 470 Principles of Artificial Intelligence (3) PR: CSCI 230 with a C- or better

☐ CSCI 480 Principles of Computer Graphics (3) PR: CSCI 230 with a C- or better, MATH 105 or MATH 120

☐ CSCI 490 Special Topics (3) PR: Instructor permission
Math Requirement

☐ MATH 105  Calculus for Business and Social Sciences (3) PR: MATH 101 or placement
OR
☐ MATH 111  Pre-Calculus Mathematics (4) PR: Placement or C- or better in MATH 101

AND

☐ MATH 207  Discrete Structures I (3) PR: MATH 105, MATH 111, or MATH 120

Select a concentration area from the following (Art, Music or Theatre):

Music Concentration

☐ MUSC 146  Fundamentals of Music (3) PR: None
☐ MUSC 246  Music Theory I (3) PR: Instructor permission

Elective Requirements: Select 12 credit hours from the following:

☐ MUSC 247  Music Theory II (3) PR: MUSC 246, MUSC 238, or instructor permission
☐ MUSC 345  Jazz Theory (3) PR: None
☐ MUSC 351  Seminar in Music Composition (3) PR: MUSC 237
☐ MUSC 352  Seminar in Music Composition II (3) PR: MUSC 351
☐ MUSC 381  Music History I (3) PR: MUSC 247 or instructor permission
☐ MUSC 382  Music History II (3) PR: MUSC 381 or instructor permission
☐ MUSC 399  Tutorial (3, Repeatable up to 12) PR: Junior standing, tutor permission, department chair permission
☐ MUSC 460  Senior Independent Study in Music Theory or Composition (3 or 6) PR: MUSC 352 or instructor permission; overall GPA of at least 2.75, department permission
☐ MUSC 481  Music Theory III (3) PR: MUSC 247
☐ MUSC 482  Music Theory IV (3) PR: MUSC 481
☐ MUSC 499  Bachelor's Essay (6) PR: department permission