Computing in the Arts Major with Concentration in Music Requirements
Catalog Year: 2014-15
Degree: Bachelor of Arts
Credit Hours: 50+

“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  Building 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 210  Game Programming (cross-listed with CSCI 210) (3) PR: CSCI/CITA 120 or CSCI/CITA 180 or instructor permission
☐ CITA 295  Seminar (1) PR: CSCI/CITA 210, CSCI 221, 9 credit hours in an art concentration
☐ CITA 495  Capstone Seminar (3) PR: CITA 295

Required CSCI Courses

☐ CSCI 220  Computer Programming I (3) PR: CSCI 120 or CSCI 180 or CSCI 210 or MATH 111; CO: CSCI 220L
☐ CSCI 220L  Computer Programming I Lab (1) CO: CSCI 220
☐ CSCI 221  Computer Programming II (3) PR: CSCI 220, CSCI 220L; CO or PR: MATH 207

CSCI Elective Requirement: Select 9 credit hours from the following:

☐ ______________   ☐ ______________   ☐ ______________

☐ CSCI 230  Data Structures and Algorithms (3) PR: CSCI 221; CO: MATH 207
☐ CSCI 250  Introduction to Computer Organization and Assembly Language Programming (3) PR: CSCI 220 and CSCI 220L; CO or PR: MATH 207
☐ CSCI 320  Programming Language Concepts (3) PR: CSCI 221, MATH 207
☐ CSCI 325  Functional and Logic Programming (3) PR: CSCI 221, MATH 207
☐ CSCI 350  Digital Logic and Computer Organization (3) PR: CSCI 250; PR or CO: MATH 307
☐ CSCI 360  Software Architecture and Design (3) PR: CSCI 230, MATH 207; CO: COMM 104
☐ CSCI 380  User Interface Development (3) PR: CSCI 221, MATH 207, or instructor permission
☐ 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, MATH 307
☐ CSCI 480  Principles of Computer Graphics (3) PR: CSCI 230, MATH 220, MATH 307
☐ 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