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CU College of Architectural Sciences

Dept of Planning & Development

Dept of Computer Sciences

Most of the 55 U.S. licensing boards require that architects hold a professional degree from a NAAB-accredited program, which include bachelor of architecture, master of architecture, and doctor of architecture programs. Additionally, NCARB Certificate requires a degree from a NAAB-accredited program to satisfy the education requirement for certification. And Carieiin has both NAAB & NCARB.

The College of Architectural Sciences provides the following two Bachelor Degrees:

A: Bachelor in Architecture & Planning designed to achieve an architectural license in the U.S. once the professional exam A.R.E. is passed and construction courses are taken. This is a key component and critical to students' ability to complete the track within the accelerated time frame.

Prepare for a career that allows you to use your creativity and passion for architecture.

Educate: Learn from the masters

How it works:

Earn the Bachelor in Architecture & Planning and pass the A.R.E. (exam) to become architecturally licensed in the U.S.

Experience: Prepare with professional practice

In the Intern Development Program Carieliin students will gain real-world work experience during summer and winter breaks to eventually obtain 3,740 hours of paid experience while completing their B.S. While working the students will put into practice what they are learning in the classroom.

Through focused instruction from faculty, a dedicated resource center, guided study groups and the coaching of expert consultants, Carieliin fully supports architectural students as they prepare for and take all sections of the **registration exam**.

The immersive art and design context at Carieliin gives architecture students a competitive advantage as designers. The exposure to art and leading-edge technology produces well-rounded practitioners with excellent graphic skills.

B: Bachelor in Architectural Sciences
This program combines a liberal arts education with a general study of architecture and design. Student may choose to select the elective requirements across a broad range of architectural topics or concentrate them within a particular area of focus such as architectural history / theory, design or technology. This four-year degree program requires a minimum of 120 credit hours.

Students considering the B.A. in Architectural Sciences must understand that this is not the professional degree for architecture practice. It is not designed to prepare the student either for architectural registration or for entry into the architecture profession. It is specifically designed for students seeking exposure to the conceptual content of architecture within a **liberal arts** framework. The curriculum is a powerful platform from which to pursue graduate education.

Bachelor in Architecture & Planning

Total Credit Hours 126 cr
Major Requirements in Architecture and Planning 36 cr

Required Core Courses 15 cr
ARPL 101 Architectural Foundations 1,
Introduction to Architecture 3 cr
ARPL 102 Architectural Foundations 2,
Design Tools 3 cr
ARPL 201 Architectural Foundations 3,
Design Analysis and Synthesis 3 cr
ARPL 211 History of Architecture 1 3 cr
ARPL 231 Introduction to Sustainability 3 cr

Program Electives 21 cr
Choose from the following (or any other approved ARPL electives)
ARPL 202 Introduction to Architecture Design 1 6 cr
ARPL 212 History of Architecture 2 3 cr
ARPL 232 Environmental Design 1 3 cr
ARPL 311 History of Architecture 3 3 cr
ARPL 314 Architectural Theory 3 cr
ARPL 333 Construction 1: Assemblies and Detailing 3 cr
ARPL 583 History of American City Planning 3 cr
ARPL 504 Spirit of Place 3 cr
ARPL 506 Portfolio Design 3 cr
ARPL 515 Beauty and Brains 3 cr
ARPL 516 Oriental Western Landscapes 3 cr
ARPL 524 Practice Law, Real Estate and Planning 3 cr
ARPL 558 Animation in Architecture and Design 3 cr
ARPL 559 Emerging Technologies Modules 3 cr
Liberal Arts and Sciences Distribution Requirements 54 cr
ENG 101 Rhetoric and Composition 3 cr
PHIL 201 Classical Design3 cr
PHIL 202 Modern Design3 cr
TRS 201 Faith Seeking Understanding 3 cr
HUM 101 The Classics in Conversation 3 cr
MATH 108 Pre-calculus 3 cr
MATH 111 Calculus 3 cr
PHYS 101 20th Century Concepts 3 cr
3 additional TRS courses 9 cr
2 additional Philosophy courses 6 cr
3 approved Liberal Studies electives 9 cr
1 approved Social Science elective 3 cr
1 LS Language Requirement 3 cr
Electives in the student's Approved Interest Area
(outside of architecture)30 cr
Total =120

Dept Computer Sciences

Associate's & Bachelor's Degree in Computer Sciences

- AA in Computer Sciences
- BA in Computer Sciences

Core Curriculum

- Principles of Microeconomics
- Information Systems
- Accounting Information Systems
- Business & Organizational Application Programming & Development
- **Database Design and Business Intelligence Implementation**
- Electronic Commerce
- Introduction to Web Site Design
- Management Information Systems
- Computer Networks, Security, and Forensics

- Interactive Mobile and Web Application Development
- Database Management Systems Design

Electives:

- Global Purchasing and Supply Management
- Introduction to Supply Chain Management
- Writing For Media
- Neural Networks
- Geospatial Information Systems for Organizations
- Marketing Analytics
- Digital Marketing and Social Media
- Marketing Research

Joint Courses in computer science/mathematics are designed to:

- •Provide an opportunity for students in other fields to learn about computers and their applications.
- •Provide specialized training for science students who will use computer science and mathematics as tools.
- •Prepare the computer science/mathematics major for employment in industry, teaching, or for admission to graduate school.

Course Requirements

To enroll in any computer science or mathematics course that lists prerequisite courses, a student must earn a grade of C- or better in all of the prerequisites.
In addition to the general education requirements, the computer science/mathematics major must complete the following:
Lower-Division Courses: 29 units
COSC 220 Computer Science I……(3)
COSC 221 Computer Science II……(3)
MATH 150Calculus I (GE)……(4)
MATH 151 Calculus II……(4)
MATH 220 Formal Methods……(3)
MATH 221Discrete Structures……..(3)
MATH250Calculus III……(4)
PHYS 210 Physics I (GE)……(5)
Upper-Division Courses: 33 units
COSC 320 Data Structures……(4)
COSC 330 Computer Systems……(3)
COSC 450 Programming Paradigms……(4)
COSC 475 Computer Networks……(4)
COSC 490 Senior Capstone (PS, RM, WI)……..(4)
MATH 260 Linear Algebra……..(4)
MATH 350 Mathematical Probability……(4)
MATH 365 Automata Theory……(3)
Choose one elective computer science of the following:
COSC 425 Computer Organization……..(3)
COSC 465 Operating Systems……(3)

First-Year Program

The computer science/mathematics major should enroll in the typical first-year program and include COSC 220, COSC 221, MATH 150, MATH 220, and MATH 221 in the first-year.