

PROGRAM SUMMARY

- **Credit Hours:** 125
- **Concentrations:** Applied Energy and Sustainable Systems
- **Declaring the Major:** Students may declare a major in Construction Management at the time of admission. Students in good academic standing may submit a Change of Major form at any time to declare a major in Construction Management. Orientation and/or advising sessions are required for new students.
- **Advising (For the Major):** Required upon admission to the major and before each semester. Assigned advisors hold group advising sessions, followed by individual advising by appointment.
- **Advising (For General Education):** By Student Services Specialists in the department.
- **Minimum Grades/GPA:** GPA of 2.0 in the major required for graduation. Grades of C or better required in all freshman level courses, as shown on Suggested Plan of Study.
- **Teacher Licensure:** No.
- **Evening Classes Available:** Some upper division (junior/senior) classes are available late afternoon or evening on a rotating basis. It is highly unlikely that students would be able to complete degree requirements through evening courses alone.
- **Weekend Classes Available:** No.
- **Other Information:** Students who complete an Associate in Applied Science Degree (AAS) in a related field before enrolling at UNC Charlotte are eligible for the Construction Management 2+2 Program, which allows students to complete their B.S.C.M. degree with two additional years of coursework. Students have the option of completing the requirements of the Civil Engineering Technology degree as a dual major with the B.S.E.T. in Civil Engineering Technology. This plan of study typically takes two additional semesters to complete.
- **Contact(s):** Ms. Laura Holland, Student Services Specialist, (lholla12@uncc.edu)
Dr. Thomas Nicholas, PE, Ph.D., Program Director (tnichola@uncc.edu)

PROGRAM REQUIREMENTS

The Construction Management program at UNC Charlotte includes education, research, and technology development in the areas of structures, construction, transportation, water resources, and geotechnics. The program is further enhanced by a business management core. In the first two years, emphasis is placed on fundamental mathematical, scientific, and communication skills through topics including the fundamentals of engineering technology, surveying, construction materials, construction methods, environmental technology, and structures. The third and fourth years provide emphasis on civil infrastructure, including foundations and earthwork, elementary structures, building systems, and highway design and construction, and construction project management areas, including scheduling & control, contracting, planning, and cost estimating. The technical core utilizes state-of-the-practice software applications.

| Areas | Credit Hours | Description |
|--|--------------|---|
| Pre-Major/ Prerequisites | - | Any student declaring a major in the Construction Management program at UNC Charlotte must submit a Change of Major application for review. AAS transfer students must fulfill a series of specified prerequisite courses before proceeding with upper-division coursework. All new CMET majors are required to meet with a Student Services Specialist for pre-registration advising. |
| Major | 84 | Major courses are specified by the department. |
| General Education (not satisfied by other major requirements) | 35 | First-Year Writing courses / Basic Skills of Information Technology (UWRT 1103 or 1104); Mathematical & Logical Reasoning (MATH 1103 & STAT 1220); Social Science (ANTH 1101/GEOG 1105/ECON 1101 or 2101/POLS 1110/SOCY 1101); Natural Science (PHYS 1101 & 1101L, PHYS 1102 & 1102L, and GEOL 1200 or CHEM 1251); Themes of Liberal Education (LBST 110X and 2301; and two from: LBST 2101, 2102, and 221X). |
| Related Work | - | |
| Foreign Language | - | |
| Electives | 6 | Students must complete two major elective courses of 3 credit hours each. Major electives are selected from the list of approved core Construction Management electives and approved by the advisor. |
| Total Credit Hours | 125 | |

SUGGESTED PLAN OF STUDY

Freshman Year

| Course Number | Course Title | Credit Hours | General Education | W/O Course | Notes |
|------------------------|---|--------------|-------------------|------------|-------------------------------|
| Fall Semester | | | | | |
| UWRT 1103 | Writing and Inquiry in Academic Contexts I & II | 3 | X | | Grade of C or better required |
| ETCE 1222 | Construction Materials | 3 | | | Grade of C or better required |
| ETCE 1222L | Construction Materials Lab | 1 | | | Grade of C or better required |
| ETGR 1100L | Engineering Computer Applications Lab | 1 | | | Grade of C or better required |
| ETGR 1103 | Technical Drawing I | 2 | | | Grade of C or better required |
| ETGR 1201 | Intro. to Engineering Technology | 2 | | | Grade of C or better required |
| MATH 1103 | Pre-Calculus Math for Science & Engineering | 3 | X | | Grade of C or better required |
| Spring Semester | | | | | |
| CMET 1680 | Prof. Development I: Construction Safety | 1 | | | Grade of C or better required |
| ETCE 1104 | Civil / Construction CAD Apps. | 2 | | | Grade of C or better required |
| ETCE 1211 | Construction Surveying I | 3 | | | Grade of C or better required |
| ETCE 1211L | Construction Surveying I Laboratory | 1 | | | Grade of C or better required |
| LBST 110X | LBST 110X Series: Arts and Society | 3 | X | | Grade of C or better required |
| MATH 1121 | ET Calculus or ETGR 2171 | 3 | | | Grade of C or better required |
| ECON 2101 | Principles of Economics – Macro | 3 | X | | Grade of C or better required |

31 Credit Hours for Year

Sophomore Year

| Course Number | Course Title | Credit Hours | General Education | W/O Course | Notes |
|------------------------|--|--------------|-------------------|------------|---|
| Fall Semester | | | | | |
| ETCE 2105 | Plan Reading & Quantity Takeoff | 3 | | | |
| ETGR 2101 | Applied Mechanics I | 3 | | | |
| XXXX XXXX | Science Elective (GEOL 1200 or CHEM 1251) | 3 | X | | Grade of C or better required |
| ETGR 2272 | Engineering Analysis II | 3 | | | |
| PHYS 1101 | Introductory Physics I | 3 | X | | Must complete prior to taking 4000 level ET courses |
| PHYS 1101L | Introductory Physics I Laboratory | 1 | X | | |
| Spring Semester | | | | | |
| CMET 2680 | Prof. Development II: Sustainable Engineering & Construction | 1 | | | |
| ETCE 2221 | Construction Means & Methods | 3 | | | |
| ETCE 2410 | Introduction to Environmental Engineering Technology | 3 | | | |
| ETGR 2102 | Applied Mechanics II | 3 | | | |
| PHYS 1102 | Introductory Physics II | 3 | X | | Must complete prior to taking 4000 level ET courses |
| PHYS 1102L | Introductory Physics II Laboratory | 1 | X | | |
| STAT 1220 | Elements of Statistics I | 3 | X | | |

33 Credit Hours for Year

Junior Year

| Course Number | Course Title | Credit Hours | General Education | W/O Course | Notes |
|------------------------|--|--------------|-------------------|------------|-------------------------------|
| Fall Semester | | | | | |
| ACCT 2121 | Principles of Accounting I | 3 | | | Grade of C or better required |
| CMET 3224 | Construction Project Administration | 3 | | | |
| ETCE 3131 | Soil Mechanics and Earthwork | 3 | | | |
| ETCE 3131L | Soil Testing Laboratory | 1 | | W | |
| ETCE 3163 | Structural Analysis and Design I | 3 | | | |
| ETCE 3163L | Structures and Materials Laboratory | 1 | | W | |
| ETGR 3295 | Multidisciplinary Professional Development | 1 | | | |
| Spring Semester | | | | | |
| ACCT 2122 | Principles of Accounting II | 3 | | | Grade of C or better required |
| CMET 3123 | Cost of Estimating | 3 | | | |
| CMET 3680 | Prof. Development III: Professional Ethics | 1 | | | |
| ETCE 3271 | Building Systems | 3 | | | |
| ETCE 3271L | Building Systems Laboratory | 1 | | W | |
| ETGR 3222 | Engineering Economics | 3 | | | Grade of C or better required |

29 Credits Hours for Year

Senior Year

| Course Number | Course Title | Credit Hours | General Education | W/O Course | Notes |
|------------------------|--|--------------|-------------------|------------|---|
| Fall Semester | | | | | |
| BLAW 3150 | Business Law I or CMET 4127 | 3 | | | Grade of C or better required (BLAW 3150) |
| CMET 4130 | Infrastructure Systems | 3 | | | |
| CMET 4126 | Project Scheduling and Control | 3 | | | |
| CMET 4129L | Construction Planning Laboratory | 1 | | W | |
| LBST 2XXX | LBST Series | 3 | X | | |
| XXXX XXXX | Major Elective | 3 | | | Selected from list of approved electives |
| Spring Semester | | | | | |
| CMET 4272 | Capstone Project | 3 | | W,O | |
| CMET 4680 | Prof. Development IV | 1 | | | |
| ETCE 4350 | Construction Geotechnics & Foundations | 3 | | | |
| LBST 2XXX | LBST Series | 3 | X | | |
| LBST 2301 | LBST Series: Critical Thinking and Communication | 3 | X | | |
| XXXX XXXX | Major Elective | 3 | | | Selected from list of approved electives |

32 Credit Hours for Year

ADVISING RESOURCES

- General Education Requirements for ALL Students: ucol.uncc.edu/general-education
- Undergraduate Catalog: catalog.uncc.edu
- Central Advising website: advising.uncc.edu
- William States Lee College of Engineering advising website: enr.uncc.edu/current-students/advising
- Department of Engineering Technology advising website: et.uncc.edu/current-students/advising
- University Advising Center website: advisingcenter.uncc.edu