Civil Engineering

Graduate programs are offered in coastal and water resources engineering, computing and systems, construction engineering and management, environmental engineering, geotechnical and geoenvironmental engineering, mechanics and materials, structural engineering and mechanics, transportation engineering and materials.

Degrees earned will be distributed as: "Master of Civil Engineering", "Master of Science," and "Doctor of Civil Engineering" without specialization specifications.

Master's Degree Requirements

Four Master's degrees, requiring a minimum of 30 or 31 credit hours, are available. At least two-thirds of a Master's program should be in a welldefined major area of concentration. The MCE is a non-thesis (Option B) degree with other requirements, such as independent projects or core courses, specified in some areas of specialization. A formal minor is not permitted. The MCE is available both on-campus and through distance education. The MSCE degree requires a thesis and a formal minor is optional. Requirements for the MENE and MSENE are the similar to those for the CE degrees.

Doctoral Degree Requirements

The Ph.D. typically requires one year of full-time course work beyond the master's degree and research culminating in a dissertation. The program must develop a well-defined major area of concentration and may include supporting courses outside the major or a formal minor in a related field. All specialty areas, including Environmental Engineering, are included in the one Ph.D. program.

Student Financial Support

Departmental teaching and research assistantships are available including coverage of tuition and health insurance. Fellowships -- full or supplemental to an assistantship -- are available for exceptional applicants. All financial aid recipients are selected on merit-based competition with other applicants. Applications requesting financial aid (both U.S. and international) should be submitted early: December 15 for Fall admission and by July 15 for Spring admission.

More Information

Civil Engineering Program Website (https://www.ccee.ncsu.edu/ academics/graduate-programs/)

Distance Website (http://engineeringonline.ncsu.edu/)

Admission Requirements

Normal minimum GPA requirements include 3.0 overall and in the major. Students who do not meet these academic requirements may take graduate courses through the Non Degree Studies program to demonstrate academic ability, but consultation with the Director of Graduate Programs is strongly advised. Applicants without academic experience in civil engineering, construction engineering, or environmental engineering may be required to take undergraduate courses to remove deficiencies, but graduate credit is not given for these courses. The Graduate Record Examination is NOT required for any

applicant (domestic or international) applying to the PhD, MSCE, or MSENE degree programs.

Applicant Information

Civil Engineering (MS and PhD)

- Delivery Method: On-Campus
- Entrance Exam: None
- Interview Required: None

Civil Engineering (MR)

- Delivery Method: On Campus, Online, Hybrid
- Entrance Exam: None
- Interview Required: None

Application Deadlines

- Fall: June 1 (US), March 1 (Int)
- Spring: November 1 (US), July 15 (Int)
- Summer 1: March 15 (US), December 15 (Int)
- Summer 2: May 1 (US), December 15 (Int)

Degrees

- Civil Engineering (MR) (http://catalog.ncsu.edu/graduate/engineering/ civil-engineering/civil-engineering-mr/)
- Civil Engineering (MS) (http://catalog.ncsu.edu/graduate/engineering/ civil-engineering/civil-engineering-ms/)
- Civil Engineering (PhD) (http://catalog.ncsu.edu/graduate/ engineering/civil-engineering/civil-engineering-phd/)
- Civil Engineering (Minor) (http://catalog.ncsu.edu/graduate/ engineering/civil-engineering/civil-engineering-minor/)
- Performance Based Earthquake Engineering (Certificate) (http://catalog.ncsu.edu/graduate/engineering/civil-engineering/ performance-based-earthquake-engineering-cert/)

Faculty

Full Professors

Sankarasubramanian Arumugam

Cassandra Allison Castorena Joseph F. DeCarolis Joel Casey Dietrich Jacqueline Gibson Andrew P. Grieshop John W. Baugh Jr. Emily Zechman Berglund Francis Lajara De Los Reyes III Joel Ducoste Henry C. Frey Mohammed Awad Gabr

Brina Mortensen Montoya
Murthy N.Guddati
Abhinav Gupta
Tasnim Hassan
Edward J. Jaselskis
Youngsoo R. Kim
Detlef R. Knappe
Mervyn J. Kowalsky
George F. List
Gnanamanikam Mahinthakumar
James M. Nau
Mohammad Pour-Ghaz
Ranji Ranjithan
William John Rasdorf
Rudolf Seracino
Billy Merle Williams Jr.
Brian Shane Underwood

Associate Professors

Ange Therese Akono Alex Albert Tarek Aziz Elendi Bardka Douglas F. Call Danjue Chen Ali Hajbabaie Kook Kevin Han Angela Rose Harris Jeremiah Johnson Fernando Garcia Menendez Ashley Margot Cabas Mijares Daniel R. Obenour Jason Frederick Patrick Anderson Rodrigo de Queiroz

Assistant Professors

Katherine Anarde Jorge Emilio San Juan Blanco Khara Deanne Grieger Jordan Kern Giorgio Talotti Proestos Jacelyn Jaunice Rice-Boayue Andrew Joseph Ziccarelli

Practice/Research/Teaching Professors

Saran Srikanth Bodda Florentino Banaag De La Cruz Billy L. Edge Meagan Kittle Autry Mohamad Shoaib Samandar

Adjunct Faculty

Amin Kamal Akhnoukh Michael Scott Breen Daniel J. Findley Alejandra C. Geiger-Ortiz Leta Huntsinger Mark Lee Marsh Aditya Sinha

Assistant Research Professor

Tongchuan Wei

Emeritus Faculty

Morton A. Barlaz William L. Bingham Robert C. Borden Roy H. Borden Allen C. Chao

John S. Fisher

- Ajaya K. Gupta
- Kerry S. Havner
- Clinton L. Heimbach
- Yasuyuki Horie
- David West Johnston
- Narendra P. Khosla
- Michael Lloyd Leming
- Vernon C. Matzen
- Stephens W. Nunnally
- M. Shamimur Rahman
- Sami Rizkalla
- Nagui M. Rouphail, Distinguished Professor Emeritus
- J. C. Smith
- John R. Stone
- Harvey E. Wahls