

## NORTH DAKOTA STATE UNIVERSITY CIVIL ENGINEERING TECHNICAL ELECTIVES OFFERED Fall 24 (Tentative) CR DS CR DS Spring 24 Area 3 1.0 CE 446/646 Basic Dynamics of Structures CE 411/611 2 1.0 Prestressed Concrete CE 493\* Undergraduate Research TBD TBD 3 1.5 CE 425/625 Bridge Evaluation and Rehabilitation Structures 3 CE 430/630 Timber and Form Design 1.5 CE 493\* Undergraduate Research TBD **TBD** CE 477/677 Applied Hydrology 3 1.5 CE 421/621 Open Channel Flow 3 1.5 Water CE 493\* Undergraduate Research TBD **TBD** CE 476/676 Watershed Modeling 3 1.5 Resources CE 493\* Undergraduate Research TBD TBD 3 CE 410/610 Water and Wastewater Engineering 1.5 3 0.5 **ENVE 468** Plastic Pollution to Solution 3 CE 472/672 1.5 Solid and Hazardous Waste Environmental CE 493\* TBD TBD Undergraduate Research CE 493\* TBD TBD CE 410/610 Water and Wastewater Engineering 3 1.5 Undergraduate Research 3 CE 454/654 Geometric Highway Design 2.0 CE 419/619 Pavement Design 3 1.5 Transportation 3 CE 493\* TBD CE 456/656 Railroad Planning and Design 1.5 Undergraduate Research TBD CE 493\* TBD TBD Undergraduate Research 2 CE 461/661 3 1.5 CE 462/662 1.0 Foundation Engineering Designing with Geosynthetics Geotechnical CE 464/664 Advanced Soil Mechanics 2 1.0 CE 417/617 Slope Stability and Retaining Walls 3 1.5 CE 493\* TBD TBD CE 493\* TBD TBD Undergraduate Research Undergraduate Research CE 725 Biomaterials 3 0.0 CE 486/686 Fundamentals of Nanotechnology 3 1.0

## NOTES:

Advanced

Materials

CE 493\*

DS indicate design credits. Six of the 12 credits of technical electives must be design credits.

Undergraduate Research

Of the 12 credits in technical electives, at least one course each must be selected from 3 of the six areas shown above.

Course offering listed are subject to change based on student enrolled and instructor/staff availability.

\*CE 493 requires prior approval by the faculty mentor and the Department (The technical elective approval form must be approved).

TBD

TBD

CE 493\*

Undergraduate Research

TBD

TBD

Updated 10/24/2023

ABOVE LIST IS SUBJECT TO CHANGES!!!