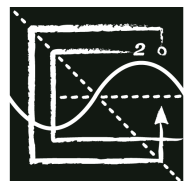


NCEES ENGINEERING EDUCATION STANDARD

Effective August 20, 2026



NCEES

NCEES Engineering Education Standard

Applicants having engineering degrees from programs that are not accredited by the Engineering Accreditation Commission (EAC) of ABET must demonstrate the following:

- A. 32 college semester credit hours of higher mathematics, basic sciences, and additional sciences
 - 1. Credits in higher mathematics must be beyond algebra and trigonometry and must emphasize mathematical concepts and principles rather than computation. Courses in differential and integral calculus are required. Additional courses may include differential equations, linear algebra, numerical analysis, probability and statistics, and advanced calculus.
 - 2. Credits must include at least two courses in basic sciences. These courses must be in general chemistry, general calculus-based physics, or general biological sciences; the two courses may not be in the same area.
 - 3. Courses in additional sciences may include earth sciences (geology, ecology), advanced biology, advanced chemistry, and advanced physics. Computer skills and/or programming courses may not be used to satisfy mathematics or basic science requirements. Basic engineering science courses or sequence of courses in this area are acceptable for credit but may not be counted twice.
- B. 48 college semester credit hours of engineering science and/or engineering design courses
 - 1. Courses in engineering science must be taught within the college/faculty of engineering or approved for engineering credit by an EAC/ABET-accredited program on a publicly listed course equivalency list. The courses must have their roots in mathematics and basic sciences but carry knowledge further toward creative application of engineering principles. Examples of approved engineering science courses are mechanics, thermodynamics, heat transfer, electrical and electronic circuits, materials science, transport phenomena, engineering economics, and computer science (other than computer programming skills).
 - 2. Courses in engineering design must stress the establishment of objectives and criteria, synthesis, analysis, construction, testing, and evaluation. Graduate-level engineering courses may be included to fulfill curricular requirements in this area.

Engineering technology courses cannot be considered to meet engineering topic requirements.
- C. 0 college semester credit hours of general education courses
 - 1. While general education courses are not required to meet the NCEES standard, general education credits will be listed in the credentials evaluation for use at the discretion of the member board.
 - 2. Examples of traditional courses in this area are philosophy, religion, history, literature, fine arts, sociology, psychology, political science, anthropology, economics (micro and macro), professional ethics, and social responsibility. English and foreign language courses in literature and civilization may be considered in this area. Courses that instill cultural values are acceptable, while routine exercises of personal craft are not.

NCEES Credentials Evaluations Policies

The NCEES Engineering Education Standard was developed by the NCEES Committee on Education for use by the NCEES Credentials Evaluations service and member boards. An educational evaluation provided by NCEES should be accepted as the only official assessment of whether or not the Engineering Education Standard has been met.

NCEES Credentials Evaluations will adhere to the following in conducting evaluations.

- Evaluations will be conducted on the following:
 1. Non-EAC/ABET-accredited bachelor's degree in engineering
 2. Bachelor's degree programs only when coupled with a master's degree or doctorate in engineering
- Evaluations may be conducted on programs that do not meet these criteria if specifically requested by an NCEES member board. Such requests must come directly from the member board to help@ncees.org.
- NCEES will evaluate all programs against the NCEES Engineering Education Standard. NCEES does not determine substantial equivalence to an EAC/ABET-accredited program.
- For the evaluation, the bachelor's degree coursework, master's degree coursework, and doctorate coursework will be considered in determining satisfaction of the NCEES standard.
- NCEES will provide credit for any advanced coursework earned prior to college enrollment that is deemed appropriate for college-level academic credit.
- A maximum of 6 hours' credit will be granted for thesis, special topics, and independent study at any level.
- Cooperative training, practicums, internships, and continuing education activities will not receive educational credits to satisfy the NCEES standard.
- NCEES will note any deficiencies in the applicant's educational history compared to the NCEES standard.

For applicants whose educational record indicates satisfaction of the NCEES standard, NCEES will report that the applicant possesses the education required in order to be considered by a member board for entry into the professional practice of engineering.

For applicants whose education record indicates deficiencies relative to the NCEES standard, NCEES will note those deficiencies for any action deemed appropriate by a member board. NCEES will also provide any relevant information concerning the educational requirements and/or any prerequisites for entry into engineering programs in the applicant's country for consideration and overall qualification by a member board.



200 Verdae Boulevard, Greenville, SC 29607
ncees.org