

UNIVERSITY of HOUSTON | ENGINEERING

Department of Civil & Environmental Engineering

Calculator Policy for Undergraduate CIVE Courses

Only calculators approved by the National Council of Examiners for Engineering and Surveying (NCEES) for use in the Fundamentals of Engineering (FE) and Principles and Practice of Engineering (PE) exams can be used during exams, tests, and quizzes in CIVE undergraduate courses. The approved calculators are:

- **Casio: All fx-115 and fx-991 models**
- **Hewlett-Packard: HP 33s and HP 35s**
- **Texas Instruments: All TI-30X and TI-36X models**

The full NCEES calculator policy is available at <http://ncees.org/exams/calculator/>.

<i>Most recommended calculator for each brand based on FE/PE calculator blogs*</i>		
Brand	Model	Price
Casio	fx-115 ES Plus	≈\$20
HP	35s	≈\$55
TI	36X Pro	≈\$20

* Can solve 3 equations, 3 unknowns. Some approved calculators limited to 2 equations, 2 unknowns. Refer to calculator manuals for details.

Engineering Licensure

- A licensed engineer is referred to as a registered engineer or Professional Engineer (PE).
- “Only a licensed engineer may prepare, sign and seal, and submit engineering plans and drawings to a public authority for approval, or seal engineering work for public and private clients.”¹ Engineers are licensed by state and each state defines what constitutes the “practice of engineering” in that state. Each state also defines the exceptions to licensing requirements in that state.
- While each state has its own licensing laws, typically there is a four-step process to obtain licensure:
 1. Earn an engineering degree.
 2. Pass the Fundamentals of Engineering (FE) exam.
 3. Gain acceptable work experience (with an accredited degree, typically four years under the supervision of a PE).
 4. Pass the Principles and Practice of Engineering Examination in the appropriate discipline. (In Texas you can take the PE exam before completing your work experience.)

In Texas, after you have graduated from an ABET accredited engineering program (like the UH BSCE program), passed the FE exam, and filed proper forms with the Texas Board of Professional Engineers you are an Engineer-in-Training (EIT).

For more information:

National Council of Examiners for Engineering and Surveying (NCEES)

- ncees.org

Texas Board of Professional Engineers (TBPE)

- engineers.texas.gov