

# FE Mechanical Cheat Sheet 2026

The night-before summary, built like the exam.

|                          |                                                     |                                                    |
|--------------------------|-----------------------------------------------------|----------------------------------------------------|
| <b>110</b><br>Questions  | —<br>Time limit                                     | <b>Pass/Fail (NCEES does n...</b><br>Passing score |
| <b>\$225</b><br>Exam fee | <b>National Council of Exa...</b><br>Governing body |                                                    |

## The numbers to remember

- 110 questions total.
- Appointment: 6 hours, of which 5 hours 20 minutes is actual exam time (plus a 2-minute NDA, 8-minute tutorial, 25-minute break).
- Fee: \$225 (since Jan 1, 2024); \$250 for Alberta/APEGA; +\$25 international scheduling fee for foreign-entity examinees.
- Scoring: correct answers only, no penalty for wrong answers.
- Passing score: not published by NCEES — results are pass/fail only.
- Results: typically back in 7–10 business days.
- Retakes: one per testing window, max 3 per 12 months.
- Units: both SI and USCS appear on the exam.

## Content domains and weights

- Dynamics, Kinematics, and Vibrations: 10–15
- Fluid Mechanics: 10–15
- Thermodynamics: 10–15
- Mechanical Design and Analysis: 10–15
- Mechanics of Materials: 9–14
- Statics: 9–14
- Heat Transfer: 7–11
- Material Properties and Processing: 7–11
- Mathematics: 6–9
- Electricity and Magnetism: 5–8
- Measurements, Instrumentation, and Controls: 5–8
- Probability and Statistics: 4–6
- Ethics and Professional Practice: 4–6
- Engineering Economics: 4–6

## High-yield review areas

- The six heaviest domains (Dynamics, Fluid Mechanics, Thermodynamics, Mechanical Design and Analysis, Mechanics of Materials, Statics) can together carry up to 88 of the 110 questions — review these last, right before you walk in.
- Refresh unit conversions between SI and USCS specifically, since both systems appear throughout the exam and a missed conversion can sink an otherwise-correct method.
- Skim the lighter domains (ethics, economics, probability) for quick formula recall — they're usually fast points once the method clicks.
- Statics and Mechanics of Materials share core free-body-diagram skills, so reviewing them back-to-back reinforces both at once.

- Thermodynamics and Heat Transfer both lean on the same energy-balance fundamentals, making them efficient to study together as well.

### Top traps

- Leaving a question blank — there's no penalty for a wrong guess, so an educated guess always beats skipping.
- Assuming a passing percentage exists to chase — NCEES does not publish one; focus on breadth of correct answers instead.
- Mixing unit systems mid-calculation — double-check whether a problem is stated in SI or USCS before plugging into a formula.
- Losing track of appointment time — remember only 5 hr 20 min of the 6-hour block is exam time, so pace against that number, not the full appointment.
- Over-investing in one hard question — with 110 questions to get through, flag it, move on, and return only if time remains.
- Forgetting the retake ceiling — you get one attempt per testing window and no more than three attempts in any 12-month period, so treat each sitting as a real opportunity, not a free trial run.

### Official sources

- National Council of Examiners for Engineering and Surveying (NCEES) — Fundamentals of Engineering (FE) Mechanical CBT Exam Specifications: <https://ncees.org/wp-content/uploads/2022/09/FE-Mechanical-CBT-specs.pdf>
- National Council of Examiners for Engineering and Surveying (NCEES) — NCEES Examinee Guide (May 2026): [https://ncees.org/wp-content/uploads/2026/05/NCEESEExamGuide\\_May-2026-1.pdf](https://ncees.org/wp-content/uploads/2026/05/NCEESEExamGuide_May-2026-1.pdf)
- National Council of Examiners for Engineering and Surveying (NCEES) — FE Exam | NCEES: <https://ncees.org/exams/fe-exam/>

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Free practice questions for this exam: [www.everyexamprep.com/exams/fe-mechanical/practice-test](http://www.everyexamprep.com/exams/fe-mechanical/practice-test)