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# Mechanical Engineering Graduate Program

## Requirements for PhD students

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### REQUIREMENT:

1. Confirm the name of your thesis advisor by the end of the first semester. Only a regular member of the Graduate Faculty can serve as an advisor of a doctoral dissertation.

**Primary thesis advisor name:** \_\_\_\_\_

(optional) Co-thesis advisor name: \_\_\_\_\_

2. Complete **15 credit hours of coursework at UVM** beyond all M.S. credits earned at UVM or at another academic institution. For students entering the PhD program without an M.S. degree, a minimum of 39 credit hours of coursework at UVM is required.
3. Complete at least **15 credit hours in graduate-level mechanical engineering coursework at UVM** from any areas of specialization below (including cross-listed courses outside of mechanical engineering). This can include M.S. credits earned at UVM. **At least 6 credits must be at the 6000 level or above.**
4. Complete 9 additional credit hours in graduate-level Engineering, Mathematics, Statistics, Physical or Life Sciences.
5. Pass the **Doctoral Comprehensive Examination**. See below guidelines regarding the Doctoral Comprehensive Exam.
6. Complete the **teaching requirement** by serving as a full-time (20hrs/week) graduate teaching assistant for one semester or half-time (10hrs/week) for two semesters at UVM.
7. Select your **Thesis Defense Committee**. The Thesis Defense Committee

8. Pass **Dissertation Proposal**. A proposal of the dissertation research must be presented to and approved by the Thesis Defense Committee. The

## AREAS OF SPECIALIZATION IN MECHANICAL ENGINEERING:

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<b>Bioengineering and Biomechanics Area</b>	ME 5410. Adv. Bioengineering Systems ME 5440. Biothermodynamics ME 5990 AST: Advanced Biomaterials Any approved or Advanced Special Topics course at the 5000 level or above in Bioengineering and Biomechanics area as offered.
<b>Control Theory and Design of Mechanical Systems Area</b>	ME 5190. Astrodynamics ME 5370. Micro and Nano Systems ME 6120. Advanced Dynamics ME 6990. AST: Motion Control

