

# MECHANICAL ENGINEERING

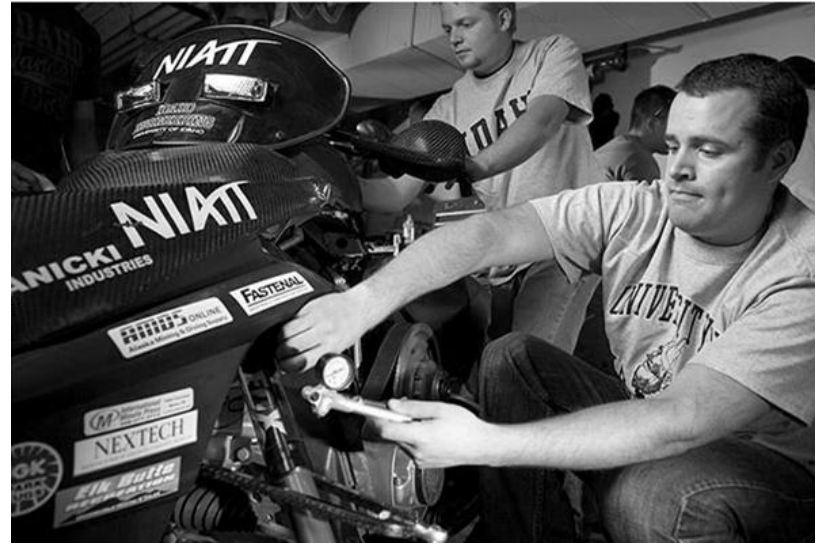
IMPACTING THE WORLD ONE DISCOVERY AT A TIME

## What can you do as a Mechanical Engineer?

Mechanical engineers utilize various technologies to improve or invent engine systems, hybrid electric vehicles, alternative fuels, robots, jet engines, prosthetic limbs, structures, and power generating plants to recreate the way we live from day to day. Mechanical engineers work in industry, consulting firms, universities, and government research labs.

As a mechanical engineer you can create new solutions and innovations. By using scientific methods to develop and refine a new concept, you will create products that are reliable, while taking into consideration cost, safety, and manufacturability.

At the University of Idaho you will find professors who are recognized leaders in innovative teaching methods and the use of applied design projects. Our faculty and staff will help you focus on your professional and personal development.



## Undergraduate Program

As a mechanical engineering major your courses will include engineering sciences, physical sciences, mathematics, communications, humanities, and social sciences. Specialized courses in thermal sciences and applied mechanics are available.

Your instructors will encourage you to develop individual interests through the selection of technical electives and to develop your creative ability in design and synthesis of components and systems.

Our mission is to prepare students for entry into professional engineering practice and advanced study through our regionally-recognized program of high-quality instruction, integrated design and laboratory experience, and scholarship.

**University of Idaho**  
A LEGACY OF LEADING

### College of Engineering

Department of Mechanical Engineering  
208.885.7572 or 88-88-UIDAHO ext. 7572  
medept@uidaho.edu

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Academic Plan for 2012/13

FRESHMAN - FALL			FRESHMAN - SPRING		
ENGL 102	College Writing and Rhetoric	3	CHEM 111	Principles of Chemistry I	4
MATH 170	Analytic Geometry & Calculus I	4	ENGR 210	Engineering Statics	3
ME 123	Intro to Mechanical Engineering Design	3	MATH 175	Analytic Geometry & Calculus II	4
COMM 101	Fundamentals of Public Speaking	2	PHYS 211	Engineering Physics I	3
ISEM 101	Integrated Seminar	3	PHYS 211 L	Engineering Physics I Lab	1
			PHIL 103	Ethics	3
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>18</b>
SOPHOMORE - FALL			SOPHOMORE- SPRING		
ME 223	Mechanical Design Analysis	3	MATH 275	Analytic Geometry & Calculus III	3
MSE 201	Engineering Materials (Fall Only)	3	ME 322	Thermodynamics	3
ENGR 350	Engineering Mechanics of Materials	3	ENGR 220	Engineering Dynamics	3
MATH 310	Ordinary Differential Equations	3	ENGR 240	Introduction to Electrical Circuits	3
PHYS 212	Engineering Physics II	3	ME 301	Computer Aided Design Methods	3
PHYS 212 L	Engineering Physics II Lab	1			
	<b>Total Credits</b>	<b>16</b>		<b>Total Credits</b>	<b>15</b>
JUNIOR - FALL			JUNIOR - SPRING		
ME 313	Dynamic Modeling of Engr. Systems	3	ME 325	Machine Component Design I (Spring Only)	3
ME 341	Intermediate Mechanics (Fall Only)	3	ME 345	Heat Transfer	3
Math 330	Linear Algebra	3	ME 330	Experimental Method for Engineers	3
ENGR 335	Engineering Fluid Mechanics	3	ELECTIVE	Math/Science Technical Elective	3
ECON 201, 202, or 272	Economics Elective	3	ELECTIVE	Technical Elective	3
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>15</b>
SENIOR - FALL			SENIOR- SPRING		
ME 424	Mechanical Systems Design (Fall Only)	3	ME 426	Mechanical Systems Design II	3
ME 430	Senior Lab	3	CE 411	Fundamentals of Engineering Review	1
ME 435	Thermal Energy Systems Design	3	ELECTIVE	Technical Elective	3
ENGL 317	Technical Writing	3	ELECTIVE	Technical Elective	3
ELECTIVE	Technical Elective	3	ELECTIVE	Humanities/Social Science Elective	3
ELECTIVE	Humanities/Social Science Elective	3			
	<b>Total Credits</b>	<b>18</b>		<b>Total Credits</b>	<b>13</b>

- See course catalog for complete degree requirements and additional information.