



BYU Department of Mechanical and Civil Engineering
IDAHO 106 Austin Building • Rexburg, ID 83460-1020 • Phone (208) 496-7630

WELCOME

to the
Department of
Mechanical and Civil
Engineering!

My name is Adam Dean.
I currently serve as the
Department Chair.
I look forward to getting to
know you as you begin your
studies in the Mechanical and
Civil Engineering disciplines.
These are both great fields of
study, and I am eager to help
you as you prepare for a
successful career.

I would like to give you a few
tips to help you prepare for
your first semester.

MATH REQUIREMENT

Which Math class should I take?

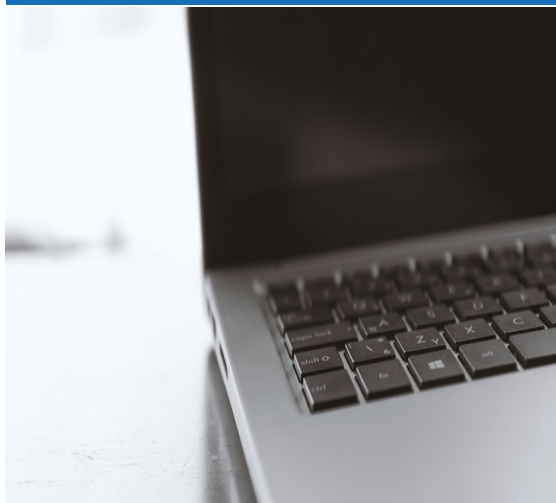
CONTINUE ON PG. 2



LAPTOP REQUIREMENT

Do I need my own laptop?

CONTINUE ON PG. 3



GRAD PLANNER

When will I graduate?

CONTINUE ON PG. 4





MATH

REQUIREMENT

Engineers need to have a strong background in math, and as an engineering major you will be required to take several math courses. Mechanical Engineering majors will need to take:

- Math 112X: Calculus I
- Math 113: Calculus II
- Math 214: Calculus III
- Math 316: Differential Equations and Linear Algebra
- Math 330: Engineering Statistics

and Civil Engineering majors will need to take:

- Math 112X: Calculus I
- Math 215: Multivariable Calculus
- Math 316: Differential Equations and Linear Algebra
- Math 330: Engineering Statistics

If you feel that you are not ready to take Math 112X your first semester, then you can register for the Precalculus course: Math 109.

If you are unsure of your math readiness, the Department of Mathematics offers a math placement test. Your score on the test will let you know which math course you should enroll in. For more information visit:

[https://www.byui.edu/mathematics/placement-exam-\(aleks\)](https://www.byui.edu/mathematics/placement-exam-(aleks))





LAPTOP

REQUIREMENT

Engineers often use computer software to aid them in their profession. In preparation for future work, the following engineering courses require students to use a provided software package during class to meet course outcomes.

- ME 142 – Engineering Computation I
- ME 172 – Parametric Mechanical CAD
- ME 201 – Engineering Mechanics: Statics
- ME 305 – Mechatronics and Measurement Systems I
- ME 310 – Mechatronics and Measurement Systems II
- ME 342 – Engineering Computation II

Mechanical and Civil Engineering students are expected to have their own laptop for use during class that meets the following requirements:

- A 64-bit Microsoft Windows operating system
- At least 16 GB of RAM

Students can download a free copy of Microsoft 365 through the University Store at:

<https://www.byuistore.com/electronics/downloads/download-microsoft-office>.

Students who prefer to use a Mac will be required to also install a Microsoft Windows operating system on their laptop, but please note that most of the software problems encountered in class come from students who are using a Mac with a Windows operating system. Mac laptops with an M1 processor (2020+) do not support a Windows operating system so students using those laptops will need to complete those computer assignments in the computer lab or have access to another computer.

I-PLAN

Planning. Simplified.



I-PLAN

GRAD PLANNER

Mechanical and Civil Engineering students are required to take 120 credits before graduation. [I-Plan](#) is an online resource to help you throughout your education at BYU-Idaho to access advising, tutoring, job postings, etc. One of the many resources on [I-Plan](#) is a graduation planning tool called Grad Planner. The University provides this tool to help you see which courses you need to take, as well as how long it will take for you to graduate.

Before registering for classes, it is recommended that you complete as much of your grad plan as possible. Note that to graduate in four years, or eight semesters, students will need to take about 15 credits per semester; however, most students find it easier to graduate in ten semesters by only taking 12 credits per semester.

The following is a link to the Grad Plan tool in I-Plan: iplan.byui.edu/Enterprise/index.html - [/studentDashboard](#).

This is a helpful walkthrough video showing you how to use the Grad Planner: <https://youtu.be/4rWThrLQbgo>.

Don't plan on only taking general education (GE) courses during your first semesters on campus. This approach prevents you from completing the math and engineering courses that are pre-requisites to other courses and may result in a delayed graduation. If you are still unsure about whether engineering is the right major for you, consider registering for a course or two in another major you might be interested in (in addition to taking the ME 101 course).

Off track semesters provide the perfect opportunity to leverage the skills you have learned in school to level-up your employment and build your resume. I recommend you apply for internships each semester you are off track. You can start with an ME 298 technical internship, then level-up to the ME 398R internships. Doing so will help you gain full-time employment.

To see when you are eligible to register for classes, visit: www.byui.edu/registration/dates-and-deadlines.

The following is a helpful walkthrough video showing how to register for classes: https://youtu.be/lzf0f_YXkkQ.

If you have questions regarding classes, contact your Academic Advisor in the College of Physical Sciences and Engineering at (208) 496-9880 or cpseadvising@byui.edu, or the department office at (208) 496-7631.



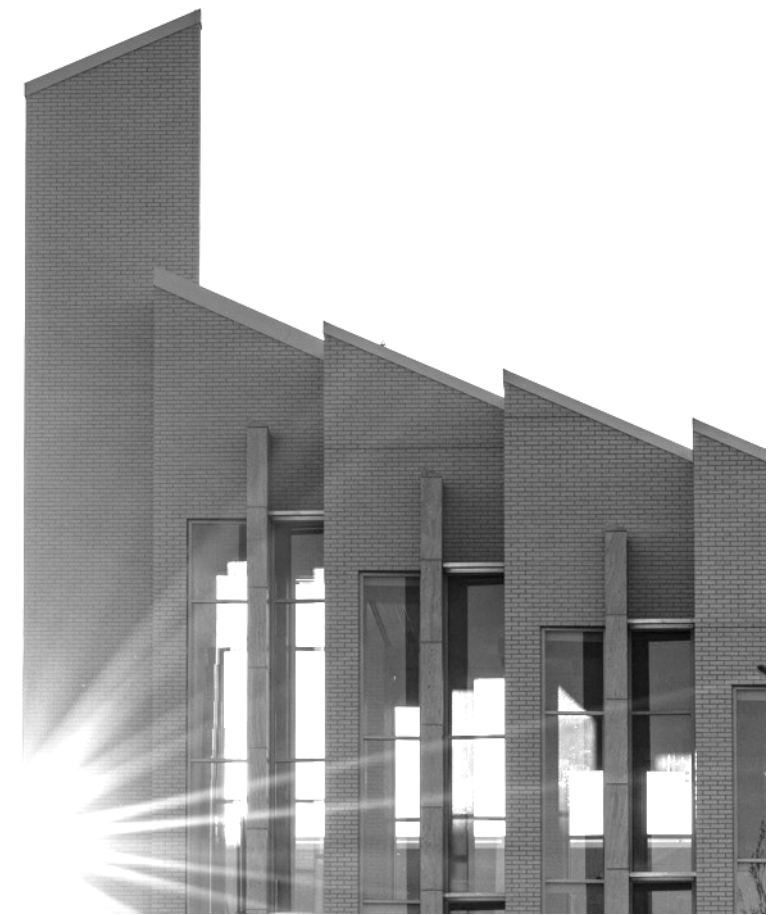
Thank You!

Thank you for enrolling at BYU-Idaho.

I hope you will come to love this University as much as I do. I started my collegiate studies here when BYU-Idaho was known as Ricks College. I have many fond memories of starting my education here, and I hope your freshman year will be the beginnings of many wonderful memories for you as well. I would like to offer a few suggestions that I have found helpful to be successful in college:

First, treat your education like a full-time job. Most classes will require you to study three hours per week for every credit, so taking 15 credits will require 45 hours of studying per week. It can be difficult to balance so much study time with the many other activities and events college life can offer. If you dedicate sufficient time to your studies, like you would a full-time job, then you will be able to prioritize your time to be successful.

Second, commit to attend class each day. We easily become distracted by many aspects of college life but being committed to attending every class will help you stay current and on track.



Third, resolve to make new friends. The beginning of the semester is always a great time to be outgoing and meet new people. You'll find that most students are just as nervous and busy as you, but a kind greeting will invite new friendships that can last a lifetime.

Fourth, everyone at BYU-Idaho wants you to succeed. Even your tough professors want you to be successful and gain meaningful employment. And even though you will graduate someday soon and leave us behind, we are rooting for you.

Last, and most important, don't forget that the Lord loves you. He has provided this opportunity for you. As you seek His help and look for His guiding hand in your education, you will see that He is involved in the details of your life.

Thank you for coming to BYU-Idaho,

Adam J. Dean, Ph.D., P.E.

Chair, Department of Mechanical & Civil Engineering
deana@byui.edu