

Get started at DMACC

Ready to get your engineering education off the ground with DMACC?

For more information, visit www.dmacc.edu/engineering or contact one of the pre-engineering academic advisors below.

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QUICK LINKS

FOR MORE INFORMATION ABOUT...

DMACC's Pre-Engineering Program:

www.dmacc.edu/engineering

Transferring from DMACC to ISU's College of Engineering:

www.eng.iastate.edu/transfer

Engineering Admissions Partnership Program (E-APP):

www.eng.iastate.edu/transfer/app

Iowa State Engineering:

www.engineering.iastate.edu

PROJECT LEAD THE WAY – CREDIT FOR HIGH SCHOOL COURSES

Credit at Iowa State University

*Introduction to Engineering Design will transfer into the College of Engineering as AE170, CE170 or ME170.

Credit at DMACC in Civil Engineering Technology (CET)

*Introduction to Engineering Design transfers into the CET program as CET178, Automated Design I

*Principles of Engineering transfers into the CET program as CET102, Fundamentals of Civil Engineering

Credit at DMACC – in non CET programs

*PLTW classes may come in as an elective. Please work with a DMACC advisor to determine eligibility.

Other transfer options may be available. Please see

<http://go.dmacc.edu/programs/pdp/engineering/Pages/welcome.aspx>

DMACC
DES MOINES AREA
COMMUNITY COLLEGE
Life's Calling™

Des Moines Area Community College shall not engage in or allow discrimination covered by law. This includes harassment based on race, color, national origin, creed, religion, gender, sexual orientation, gender identity, age, disability, marital status, pregnancy and genetic information. Veteran status in educational programs, activities, employment practices, or admission procedures is also included to the extent covered by law. Individuals who believe they have been discriminated against may file a complaint through the College Discrimination Complaint Procedure. Complaint forms may be obtained from the Human Resources Department, the campus Provost's office, or the EEO/AA Officer. Persons who wish for additional information or assistance may contact the EEO/AA Officer, Human Resources, Bldg. 1, 515-964-6479. For requests for accommodations, the Accommodation/Section 504/ADA Coordinator can be contacted at 515-964-6857.

PRE-ENGINEERING

PARTNERSHIP PROGRAM WITH
IOWA STATE UNIVERSITY

DMACC ENGINEER YOUR FUTURE

Life's calling you to take the next step

www.dmacc.edu/engineering

DMACC
DES MOINES AREA
COMMUNITY COLLEGE
Life's Calling™

DID YOU KNOW IN THE NEXT TEN YEARS, ENGINEERING JOB OPENINGS WILL INCREASE BY **10-16%***



ENGINEER YOUR FUTURE

Are you a natural problem solver? Do you get a kick out of creating? Do you live to bring science to life? Then it's no wonder you're interested in engineering!

As an engineer, you'll get to use technology to help improve our world, while you design, create and build a better future. Read on to discover how you can accomplish your professional goals with DMACC and Iowa State University.

ENJOY SMALL CLASS SIZES OF 30 STUDENTS OR FEWER

RECEIVE ONE-ON-ONE SUPPORT FROM FACULTY AND STAFF

ACCESS FREE TUTORING SERVICES

MAKE YOUR TUITION DOLLARS GO FURTHER

LIVE ON THE IOWA STATE CAMPUS when you join the Engineering Admissions Partnership Program (E-APP)

THE DMACC AND ISU PARTNERSHIP

At Des Moines Area Community College, we're preparing future engineers for a successful career by partnering with Iowa State University in the Engineering Admissions Partnership Program (E-APP). This **FREE** partnership program allows a student to get connected to Iowa State's College of Engineering and engage with Iowa State faculty, staff and students while having access to ISU's student services, libraries, career services *and more*. For more information about E-APP, visit www.eng.iastate.edu/transfer/app.

At DMACC, you can take 32 credit hours that work toward completing the ISU Engineering Basic Program regardless of the engineering discipline you plan to pursue – from aerospace to electrical and everything in between. When you finish this program at DMACC, not only will you meet the requirements to transfer to ISU as a sophomore, *you'll also* have the option of continuing your education at DMACC by taking classes beyond the ISU Basic Program. Physics II, Calculus III, Differential Equations, Engineering Graphics, Statics, Economics, Accounting *and more*...all in a personalized setting with faculty who give you individual attention. Work with both your DMACC and ISU advisors to learn about what other DMACC courses are applicable to your engineering discipline.

*Varies by field of engineering, via Kuder Career Planning System

What is the Engineering Basic Program?

Science, Math, English, Computer Programming, Engineering Orientation and Problem Solving. These courses, when completed, work toward fulfilling the Engineering Basic Program at Iowa State University. Our DMACC course numbers are equivalent to the course offerings at ISU. *Please note some of these classes have pre-requisites – your advisor can help you with scheduling.*

• Indicates this class has a pre-requisite		
SEMESTER 1 (FALL)		
• MAT211	Calculus I	5 credits
• ENG105	Composition I	3 credits
• CHM165	Chemistry	4 credits
• EGR100	Engineering Orientation	1 credit
• EGR161	Engineering Computations**	2 credits
		15 credits
SEMESTER 2 (SPRING)		
• MAT217	Calculus II	5 credits
• ENG106	Composition II	3 credits
• PHY213	Physics I	6 credits
• EGR151	Visual Basic for Engineers	2 credits (or)
• EGR155	Engineering C/C++	2 credits
• CIS125	Intro to Programming Logic with C/C++	3 credits (or)
		16 or 17 credits
<p>**EGR161 must be taken along with one of the programming classes listed in order to meet the ISU requirement of Engineering 160. At ISU, 160 is taught as a 3-credit class involving engineering computations and computer programming. At DMACC, this class has been split into two parts. Please speak with your advisor for more information.</p> <p>SDV171, Library, is part of the Engineering Basic Program. It is not included in the semester breakout above. We would encourage transfer students to wait and take it at ISU so they can learn how to utilize the ISU library.</p> <p>ISU requires a foreign language as a qualification for graduation. Students may satisfy this requirement by either completing two years of a single foreign language in high school or two semesters of a single foreign language in college.</p>		

While taking the Engineering Basic Program at DMACC, **CONNECT EARLY AND OFTEN** with DMACC and ISU advisors. Plan for a successful transfer by participating in E-APP and use the Tips for Transferring that follow. >>

TIPS FOR TRANSFERRING

CHOOSING TO TRANSFER? Here are some tips to help ensure your transition from DMACC to ISU's College of Engineering goes as smoothly as possible.***

While at DMACC:

Join the FREE Engineering Admissions Partnership Program (E-APP) learning community. This pre-engineering community is designed to enrich your transition to Iowa State. Research has shown that students who participate in E-APP are retained at a significantly higher level compared to those who don't. Find out more at www.eng.iastate.edu/transfer/app and talk to your advisor about signing up.

GPA matters! Entrance into ISU's College of Engineering requires completion of the basic program – with a grade point average of 2.00 or better in the basic program courses.

Grades do, too! It's been shown that the Engineering Basic Program GPA and transfer GPA are the best indicators for retention in the engineering program. These minimum grades indicate future success:

- B in Calculus Coursework
- B in Physics
- B in Engineering Problem Solving

Take advantage of the Engineering Transfer Student Webpage. Found at www.eng.iastate.edu/transfer, this page features many useful links for students looking to join the engineering program at Iowa State.

Use TRANSIT. This is an ISU computer tool that will tell you how the courses you take at DMACC will transfer to Iowa State. Find it at <https://transit.iastate.edu>.

Visit Iowa State's campus. And while you're there, stop by your advisor's office.

Meet regularly with DMACC and ISU advisors. Connect early and often!

While at Iowa State:

Participate in a learning community (LC). Students who participate in a learning community at ISU are retained at a significantly higher level than those who don't. Multiple LC participation increases retention even more.

Live in Ames. Research has shown that engineering students who live in Ames have a much higher level of success than commuters.

Get into a study routine. And stick with it.

Prepare for your adjustment to Iowa State's College of Engineering:

- Take 12-15 credits your first semester at ISU.
- Get to know engineering faculty, staff and students. Don't be afraid to reach out to them!
- Access the academic, social and professional resources available to you.

***These tips are conclusions based on ongoing research from Iowa State University, National Science Foundation, SEEC Grant, Statistical Data 2011.