

# Engineering

offered on the Main Campus

## Program Description

Engineering courses are offered in the Arts and Sciences Division at Indian Hills. Students interested in engineering careers can begin working toward a Bachelor of Science degree in engineering at Indian Hills. Upon completion of the one and one-half year IHCC curriculum, students are able to transfer to a four-year school to complete their B.S. degree.

Indian Hills has an articulation agreement with The University of Iowa. Provided the student maintains a 3.0 grade point average or higher for all core engineering classes, Iowa will accept transfer credit for these courses leading toward a B.S. in Engineering. As a result, students enter The University of Iowa as a second-semester sophomore.

Indian Hills students must maintain an overall cumulative grade point average of 2.5 in order to be admitted into the engineering program at Iowa.

## Engineering Fields Available

Indian Hills' Engineering program prepares students to continue at The University of Iowa in any of the following disciplines:

- Biomedical Engineering
- Biochemical Engineering
- Chemical Engineering
- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Environmental Engineering
- Industrial Engineering
- Mechanical Engineering

## Job Opportunities

For the past several years it has been commonplace to read that U.S. industries are having difficulty meeting their demand for engineers. This need was the impetus for Indian Hills establishing this engineering curriculum. A student who likes science and math, has a curiosity about how things work or likes to design, program or build, may find a career in engineering to be both fulfilling and financially rewarding.

## Benefits to Beginning at IHCC

There are some advantages to beginning engineering coursework at Indian Hills as compared to four-year institutions.

It makes sense economically. Community college tuition, in general, is substantially less than that of four-year schools.

Perhaps of more importance, college freshmen are not always firm in their academic major and, after a term or two, some students develop an interest sparked by knowledge gained in college courses they have taken. At Indian Hills, it is easy to adjust your direction and pursue another academic interest.

The engineering program at Indian Hills is structured so the student will receive both an Associate of Science degree and Bachelor of Science degree upon completion of university coursework. This dual degree concept is good for a student who may, for some reason, not complete all requirements for a bachelor's degree at the four-year college. Just as IHCC engineering coursework transfers to The University of Iowa, the student may also transfer courses completed at Iowa to Indian Hills to satisfy requirements for the associate's degree. This is an important flexibility provided by the

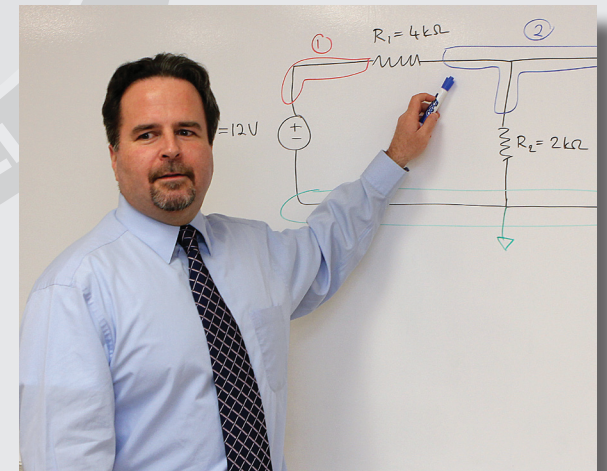
Indian Hills engineering program that is valuable for protecting a student's investment.

## Other Information

Indian Hills Community College has one of the lowest tuition rates in Iowa. Financial assistance is available to qualified students. Students are eligible to apply for designated scholarships and Indian Hills Foundation Scholarships.

## Admissions Procedures

- (1) Complete a free application, which can be obtained from the Indian Hills Admissions Office, a high school counselor, printed from the website at [www.indianhills.edu](http://www.indianhills.edu) or submitted online.
- (2) Request that your high school send an official transcript.
- (3) Transfer students must submit a transcript of all college work done prior to entering Indian Hills Community College.



**For more information:** [www.indianhills.edu](http://www.indianhills.edu)

**Contact Oguz Poroy, Ph.D.**

[Oguz.Poroy@indianhills.edu](mailto:Oguz.Poroy@indianhills.edu)  
(800) 726-2585, ext. 1829

Campus Tours: (800) 726-2585, ext. 5153

## Engineering



Indian Hills is accredited by the Higher Learning Commission. 30 North LaSalle St., Ste 2400; Chicago, Illinois 60602-2504; 312/263-0456; 800/621-7440; FAX: 312/263-7462; Internet: [www.ncahigherlearningcommission.org](http://www.ncahigherlearningcommission.org)

**Equal Opportunity:** Indian Hills Community College provides equal educational and employment opportunities and does not illegally discriminate on the basis of age, race, creed, color, sex, sexual orientation, gender identity, marital status, national origin, religion or disability in its educational programs, activities or its employment and personnel policies. Inquiries or grievances related to this policy may be directed to Bonnie Campbell, Director of Human Resources/Equity Coordinator, IHCC, 525 Grandview, Ottumwa, IA 52501.

**Disabilities:** Individuals with disabilities who require accommodations or special services should contact the IHCC SUCCESS Center for assistance. Services are available to students who may need classroom accommodations, interpreters, and/or specialized equipment. All student requests are dealt with in a confidential manner. Students should contact the Ottumwa SUCCESS Center at (800) 726-2585, ext. 5238. Centerville students should contact the Centerville SUCCESS Center at (800) 670-3641, ext. 2232. All students may contact the Dean of Academic Services at (800) 726-2585, ext. 5218.

# 800.726.2585

[www.indianhills.edu](http://www.indianhills.edu)

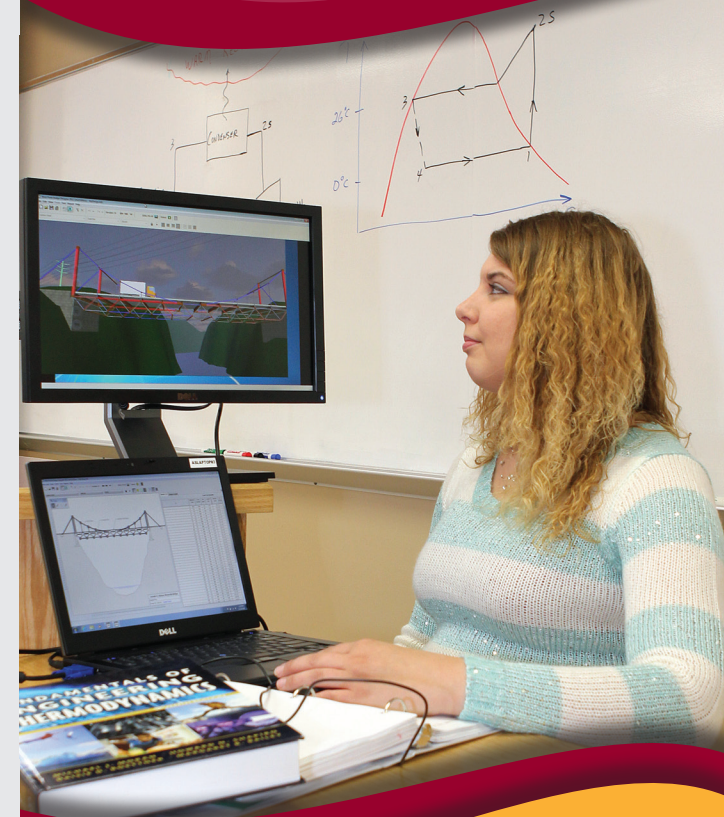
## Program Curriculum

Course Title	Credits
<b>FALL (First Year)</b>	
PLTW Principles of Engineering <sup>1</sup> OR Engineering I	3
Calculus I	4
Classical Physics I	3
Principles of Chemistry I	3
Composition I <sup>2</sup>	3
	16
<b>WINTER</b>	
Engineering II	3
Calculus II	4
Classical Physics II	3
Principles of Chemistry II	3
	13
<b>SPRING</b>	
Calculus III	4
Classical Physics III <sup>3</sup> OR Principles of Chemistry III	4
Composition II	3
Humanities and Fine Arts	3
	14
<b>SUMMER</b>	
Statics	2
Engineering Math - Matrix Algebra	2
Fundamentals of Oral Communication	3
Social Science	3
Social Science	3
	13
<b>FALL (Second Year)</b>	
Introduction to Electrical Circuits	3
Thermodynamics	3
Differential Equations	3
Humanities and Fine Arts	3
	12

<sup>1</sup> Some high schools offer this class (exam required) or allow concurrent enrollment at Indian Hills.

<sup>2</sup> Some students will have already taken an Advanced Placement or concurrent enrollment English Composition class that meets this requirement.

<sup>3</sup> See an academic advisor or the program coordinator before selecting one of these courses.



Schedule a visit to

# INDIAN HILLS

Call (800) 726-2585, ext. 5153

