

The banner features the text "INTRODUCTION TO ENGINEERING" in large, white, spaced-out letters against a dark green background. Below it, in smaller white text, is "summer program for high school students". On the left, there is a small inset image of a person working at a computer. On the right, there is a larger, slightly blurred image of a person in a dark shirt.

INTRODUCTION TO ENGINEERING

summer program for high school students

Summer 2019

Dear IEP participant:

It is with great pleasure that I welcome you to Notre Dame's Introduction to Engineering Program. We trust that you will find your two-week stay at Notre Dame this summer to be a very valuable and memorable one.

Below is some information you will find useful as you prepare to join us soon. The numbers between parentheses refer to the building numbers as shown on the campus map.

Location:

Notre Dame is located in northern Indiana, just outside the city of South Bend. It is only a few minutes South of the Michigan border, 90 minutes East of Chicago, four hours West of Cleveland, two hours North of Indianapolis, three hours Southwest of Detroit, and 45 minutes Southeast of Lake Michigan. Local time is Eastern time, therefore the same time as New York and Detroit, one hour ahead of Chicago, and three hours ahead of Los Angeles.

Arriving at ND:

We shall expect you to arrive any time on Sunday, the first day of your session. Go straight to your dorm (see below, under [Residence Halls](#)) where you will sign up with the hall staff and will also meet the IEP counselors.

Travel by Land:

If you drive to campus, you may enter by either gate (1173 for the main gate and 1174 for the east gate). Though unauthorized cars are usually not allowed on campus, the gate security officer will allow cars to enter if the intended purpose is to drop off someone with luggage (note: if you are driving via the Indiana Toll Road (80/90), get off at Exit 77).

Travel by Air:

- Flying all the way to South Bend: South Bend is served by the South Bend Regional Airport (code: SBN), which is 20 minutes from the Notre Dame campus. If you need a ride from the South Bend airport, we can make arrangements, but only if you have contacted us in advance and given us your itinerary (email us at iep@nd.edu with the info).

- Flying to Chicago: both O'Hare and Midway airports are about two hours from Notre Dame. "Coach USA" is a bus that serves Notre Dame at regular intervals from either airport. The bus ride takes about three hours due to stops. You can find the bus schedule at <http://www.coachusa.com/> (select "Illinois" and "Chicago O'Hare" or "Chicago Midway" Airport as the origin, and "Indiana" and "Notre Dame" as the destination; note that Notre Dame's time is one hour ahead of Chicago).

Campus:

The Notre Dame campus is one of the most beautiful university campuses around the country. It is a closed campus, with two lakes.. On the campus there are numerous types of trees and several jogging trails. The campus is self-sufficient as it has its own security, fire department, water tower and power plant. A famous campus landmark is the golden dome, topped by a statue of the Virgin Mary, which houses the administration offices. The campus is constantly expanding, and with numerous construction projects that are currently underway.

Residence Halls:

The housing will be in the following dorms:

- the men will be in **Zahm Hall (1038)**
- the women will be in **Lyons Hall (1024)**.

The staff of each hall usually consists of a Manager and an Assistant Manager, and a couple of desk clerks; each hall will also have in-residence Notre Dame students assigned specifically as IEP Counselors for this program.

For laundry, dorms usually have coin-operated machines. You must provide your own detergent, which can be purchased from machines in the dorm.

Your room is furnished with a twin-long bed, dresser, one blanket, desk and chair, and closet or storage area, per person (most of you will be rooming in pairs). You must provide your own towels, pillow, and bed linens, and, if you wish, your own alarm clock, desk lamp, radio, and fan. Rooms are not air-conditioned.

Program:

The Introduction to Engineering Program consists of several parts, all of which will give you an overview of the various fields of engineering, while at the same time giving you some hands-on experience, as well as a taste of college life. Most activities will take place in the Fitzpatrick Hall of Engineering (1088), DeBartolo Hall (1144) or Stinson-Remick Hall (1213).

The morning sessions will usually consist of lectures or demonstrations given by Notre Dame Engineering professors, covering many topics. The afternoons will consist of hands-on work on projects. You will also learn some basic computer programming. Several computer clusters, running Windows, Macs and Linux, will be at your disposal. You will have full access to the Engineering Learning Center and to Notre Dame's excellent computing facilities. You will each have an email account during your stay here, with full access to the internet.

Make sure you bring a form of identification that has your picture on it.

You are not required to bring your computer; note however that previous IEP students have found it quite useful to bring their laptops, and have recommended it in the end-of-program feedback surveys. If you do choose to bring a laptop, we will help you set it up on Monday, the first full day, and you will have access to ND's main wireless network.

You will be working on a couple of projects, which will also take the form of a competition; you will also write reports on the morning lectures.

Three field trips are scheduled: one to a manufacturing facility, one to Chicago's Museum of Science and Industry, and one to a beach on Lake Michigan. The counselors will also organize numerous activities on and off campus.

A banquet for participants and organizers will be held at 6 p.m. on the last Friday of your session, and certificates and awards will be handed out. The banquet is free to IEP participants and immediate family; guests may attend for \$10 each, with a reservation.

You are required to attend all of the above. During your spare time, you may do as you please, provided, of course, that you abide by the rules. One such rule deals with curfew time. See enclosed "Code of Conduct for Summer High School Residents" for details.

Note: You may be receiving an email from the Notre Dame Registrar's Office regarding web enrollment; please do not worry about doing the web enrollment for now. I will walk you through it all on the first day of class.

Money & Payment:

If paying by check, make it payable to "University of Notre Dame". Other forms of payment are also possible. The balance is due on Monday, the first full day after your arrival, at the orientation session.

There is a bank, and several ATM machines located in the LaFortune Student Center (1012).

Meals:

You will each have a meal plan, which will cover all your meals at ND, and which will give you access to the South Dining Hall (1026). The meal plan will also include Flex Points and Domer Dollars (these features will be explained when you get here, at the orientation session).

Weather:

South Bend summers are usually warm, and occasionally hot and humid, especially in July, so bring plenty of shorts, tops, and other casual, lightweight clothes that are easy to wash. Temperatures are usually in the 80's during the day, occasionally in the 90's. Don't forget your bathing suit for use at the swimming pool or the beach on campus, and athletic apparel so you can take full advantage of Notre Dame's numerous sports facilities. A rain hat or umbrella might also be necessary, as well as a sweater or two for occasional cool nights. One set of nice clothing is suggested for the closing banquet.

Campus Facilities:

While Notre Dame rules forbid summer participants from entering dormitories other than the one assigned to them, a number of facilities around campus are available for use, which you can access thanks to the Notre Dame ID card that you will be given. The campus bookstore (1159) has various products and supplies. Two indoor swimming pools (1039, 1083), the outdoor swimming area on one of the lakes, soccer fields, a golf course, tennis, basketball and volleyball courts, can all be used for recreation. Food establishments are available at the LaFortune Student Center (1012), which also provides other services such as a bank, hairdresser, deli shop, etc, as well as at the new Duncan Student Center (1211), which also contains indoor sports facilities. The Health Center / Infirmary (1035) are also available for use by the students in the program. Medical emergencies are normally referred, when necessary, to a local hospital.

Rules:

It is of utmost importance that you note and follow all the rules of conduct for the summer program. Any student who violates these rules will be terminated from the program, parents and high school notified, a fee imposed, and the student will be asked to leave the campus, and banned from it. Your admittance to the program is contingent upon your full acceptance of all its rules and regulations. You will have a wonderful two weeks here, will learn a lot, meet numerous wonderful people, and will have a great time. It is crucial, however, that you and your parents be fully aware of the rules, and that you abide by them.

Questions:

If you have any questions, you may call Cleveon at (574) 631-6092 for general questions, or me at (547) 631-7388 for specific questions. You may also email me at iep@nd.edu. Our fax number is (574) 631-9260. Our web address is <http://iep.nd.edu>, where you will also find a useful FAQ page.

Sincerely,



Ramzi Bualuan
Director, Introduction to Engineering Program