


Join Our NAHB Student Chapter

Get practical experience that gives you the advantage in today's job market.

- Network with industry professionals.
- Qualify for national scholarships and awards.
- Compete in a national-level student competition at NAHB's International Builders' Show® (IBS).
- Engage in professional development activities.

Learn more at nahb.org/StudentChapters.

Follow us at facebook.com/NAHBStudentChapters 



Student Chapters



National Association of Home Builders Student Chapter at Penn State



Residential construction is the single largest segment of the building industry in the U.S. Membership in the Penn State Student Chapter of the National Association of Home Builders (NAHB) entitles you to participate in the services of a professional, academic, and social organization. Students who are interested in a career in residential or light-commercial building construction are urged to join the NAHB Student Chapter. The basic advantages are listed below:

Professional

Here are a few reasons why you should become a **Student Member**:

- ◆ Membership provides an opportunity for you to learn from experienced builders and gain first-hand knowledge of the home building industry in preparation for your career.
- ◆ Each student has a chance to participate in national competitions and awards programs.
- ◆ Members benefit from the following:
 - ◆ Compete in national-level competitions and awards programs
 - ◆ \$30 registration fee to the International Builders' Show (fee for non-member students: \$50)
 - ◆ Connect with other Student Chapter members and alumni across the country
 - ◆ Develop leadership skills by holding an officer position within your chapter
 - ◆ Networking opportunities with local and national NAHB members and industry professionals
 - ◆ Build a relationship with your local Home Builders Association (HBA)
 - ◆ Access to members-only content on nahb.org, merchandise, webinars and other services

Academic

- ◆ The NAHB Student Chapter provides you with the opportunity to learn more about residential building and light-commercial building industries through guest speakers, educational trips, connections to Penn State's Habitat for Humanity club, films, special courses, summer jobs, and notification of related community, state, and national events.
- ◆ As a member, you are eligible to apply for many scholarships. Stay tuned on more details on applying for the scholarships available at Penn State University this Fall Semester. Other student chapter member scholarship programs are available through the National Housing Endowment at www.nationalhousingendowment.org.
- ◆ Student chapter members are given the opportunity to apply skills learned in the classroom to a real construction project that is part of CE 411. All student chapter members are eligible to participate in the project, whether or not they take CE 411; however, only a team of six (6) students will be selected to participate in the 2016-2017 Residential Construction Management Competition at the International Builders Show. The selected six member team will be awarded an expense paid trip to the International Builders Show in Orlando, FL from January 7-13, 2017.
- ◆ Active membership in an organization such as this looks good on your resume! Membership dues of \$30 are payable on or before October 3, 2016. Annual regular membership in NAHB extends from October 1 of the current year to September 30 of the succeeding year.

Application for Membership – Academic Year 2016-2017

(October 1, 2016 through September 30, 2017)

NATIONAL ASSOCIATION OF HOME BUILDERS Student Chapter at The Pennsylvania State University 219 Sackett Building - University Park, PA 16802

MEMBERSHIP DUES: **\$30.00**

(National Chapter Dues: \$25; Student Chapter Dues: \$5)

Make checks payable to: Penn State NAHB

The membership fee must be paid by OCTOBER 3, 2016

PLEASE PRINT INFORMATION

Membership Status: New Member Continuing Member

Name: _____
Last Name Middle Initial First Name

Student ID # REQUIRED: _____ E-Mail: _____

Gender: Male Female

Local Address: _____
Street (or P.O. Box)

City State Zip Code

Telephone

Home Address: _____
Street (or P.O. Box)

City State Zip Code

Telephone

Major _____ Expected Date of Graduation: _____ / _____
Month Year

Please check all that apply:

I am not a NAHB Officer

I am a NAHB Officer, and my position is _____

I am interested in participating in the construction project for the NAHB Residential Construction Management Competition.

Signature: _____ Date: _____

Penn State's Commitment to the Residential Building Industry

A program in Residential and Light-Commercial Building Construction was established at The Pennsylvania State University in 1980 through the Departments of Architectural Engineering and Civil and Environmental Engineering. Outstanding support has been received from the Builders Association of Central Pennsylvania, the Pennsylvania Builders Association (PBA), the National Association of Home Builders (NAHB), and the late Bernard Hankin (of The Hankin Group, who provided the original encouragement and financial support).

Penn State currently offers the following programs and activities to support students interested in the Residential Building Industry:

➤ **Undergraduate Courses**

- ◆ CE 410 W – Sustainable Residential Subdivision Design (Fall 2016)
- ◆ AE 470 – Residential Building Design and Construction (Fall 2016)
- ◆ CE 411 – Residential Construction Design Project (Fall 2016)
- ◆ AE 471 – Construction Management of Residential Building Projects (Spring 2017)

➤ **Residential Construction Minor**

The minor consists of 22 credits: 10 required credits (AE 470, AE 471, ARCH 412, CE 411) and 12 additional credits. The 12 additional credits are based on four (4) tracks: Architectural Engineering, Architecture, Civil Engineering, and All Other Majors.

A grade of C or better is required in all courses in the Minor. Students must also maintain at least a 2.0 GPA.

See [website](#) for **Minor-Required Courses and Track-Required Courses**

Students interested in obtaining a minor in Residential Construction should fill out the Residential Construction Minor Application (page 6 of this packet) and return it to Dr. Ali Memari in 222 Sackett Building. For more information on the minor, visit: <http://www.phrc.psu.edu/Student-Education/Educational-Opportunities/Residential-Construction-Minor.aspx>

➤ **Housing Certificate Program**

A Housing Certificate is available for students who complete the following undergraduate or graduate courses:

Prescribed Course: AE 470

Additional Courses: Choose 9 credits from the following:

AE 432, AE 471, AE/CE 542, BE 462, CE 410W, RM 303, RM 450

Students interested in obtaining a certificate in housing should fill out the Housing Certificate Program Registration Form (page 5 of this packet) and return it to Dr. Ali Memari in 222 Sackett Building. For more information on the certificate, visit http://www.engr.psu.edu/ce/housing_cert.html

➤ **Scholarships and Awards**

- ◆ Scholarships for undergraduate students
- ◆ Travel Grants for students on the Residential Construction Management Competition team to attend the NAHB's International Builders' Show in January or February each year
- ◆ The J. Roger Glunt Graduate Fellowship in Housing for graduate students. This Fellowship was established in 1994 and is available every Fall Semester to one or more graduate students interested in housing. The Glunt Fellow(s) are also awarded a travel grant to attend the NAHB International Builder's Show.

➤ **An active Student Chapter of the National Association of Home Builders**

The Student Chapter received its charter from NAHB in 1981 and averages about 30 student members each year.

➤ **An active graduate-level R & D program**

Since 1983, a number of research and development projects have focused directly on various aspects of the residential building industry.

➤ **The Bernard and Henrietta Hankin Chair in Residential Building Construction**

This endowed Chair was established in 1989 and is currently held by Dr. Ali Memari.



**RESIDENTIAL CONSTRUCTION MINOR
APPLICATION FOR ADMISSION
Department of Architectural Engineering**

Name	PSU ID	Major
Local address 1	E-mail	Phone
Local address 2	Semester Standing	Planned semester of graduation

Requirements & Instructions

The Minor consists of 22 credits: 10 required credits and 12 additional credits. A grade of C or better is required in all courses in the Minor, and students must maintain a GPA of 2.0 or higher. Please record below all of the courses that you plan to take to satisfy these requirements.

Note that the Minor cannot guarantee entrance into departmentally controlled courses. The proposed course plan should be discussed with your academic (major) advisor and signed. **Return this form, along with required signatures and an unofficial transcript or degree audit, to Christina Decoteau in 104 Engineering Unit A for further processing.** A certificate will be awarded upon successful completion of the minor requirements.

Minor-Required Courses – ALL 10 Credits Required	
Course Number	Anticipated or Actual Semester & Year Taken
<input checked="" type="checkbox"/> AE 470 (3 credits) (Suggested Sem. 5-8)	_____ - _____
<input checked="" type="checkbox"/> AE 471 (3 credits) (Suggested Sem. 5-8)	_____ - _____
<input checked="" type="checkbox"/> ARCH 412 (3 credits) (Suggested Sem. 5-8)	_____ - _____
<input checked="" type="checkbox"/> CE 411 (1 credit) (Suggested Sem. 5-8)	_____ - _____

Track-Required Courses – Only 12 Credits Required				
Architectural Engineering (Suggested Sem. 3-8)	Architecture (Suggested Sem. 3-8)	Civil Engineering (Suggested Sem. 3-8)	All Other Majors (Suggested Sem. 3-8)	Anticipated or Actual Semester & Year Taken
<input type="checkbox"/> AE 202 (3)	<input type="checkbox"/> AE 211 (3)	<input type="checkbox"/> AE 432 (3)	<input type="checkbox"/> ARCH 100 (3)	_____ - _____
<input type="checkbox"/> AE 372 (3)	<input type="checkbox"/> AE 421 (3)	<input type="checkbox"/> AE 542 (3)	<input type="checkbox"/> ARCH 481 (3)	_____ - _____
<input type="checkbox"/> AE 402 (3)	<input type="checkbox"/> AE 422 (3)	<input type="checkbox"/> BE 462 (3)	<input type="checkbox"/> AE 202 (3)	_____ - _____
<input type="checkbox"/> AE 404 (3)	<input type="checkbox"/> BA 301 (3)	<input type="checkbox"/> CE 332 (3)	<input type="checkbox"/> AE 372 (3)	_____ - _____
<input type="checkbox"/> AE 454 (3)	<input type="checkbox"/> R M 303 (3)	<input type="checkbox"/> CE 341 (3)	<input type="checkbox"/> BA 301 (3)	_____ - _____
<input type="checkbox"/> AE 456 (3)		<input type="checkbox"/> CE 410W (3)	<input type="checkbox"/> BE 303 (3)	_____ - _____
<input type="checkbox"/> AE 542 (3)			<input type="checkbox"/> R M 303 (3)	_____ - _____
<input type="checkbox"/> BE 462 (3)				_____ - _____

Student signature: _____ **Date:** _____

Major Advisor signature: _____ **Date:** _____

Faculty in Charge of Minor (Dr. Ali Memari) signature: _____ **Date:** _____

For Office Use Only	
Final Status (check one after review)	
<input type="radio"/> Approved <input type="radio"/> Refusal <input type="radio"/> Pending Specify: _____	Int: _____ Date: _____

College of Engineering

HOUSING CERTIFICATE PROGRAM REGISTRATION

_____ Name	_____ PSU ID	_____ Major
_____ Local address 1	_____ E-mail	_____ Phone
_____ Local address 2	_____ Planned semester of graduation	

COURSE PLAN TO MEET CERTIFICATE REQUIREMENTS

Prescribed Course

AE 470	3	
_____ Course name and number	_____ Number of credits	_____ Anticipated Semester Taken

Additional Courses

**Choose 9 credits from the following:
AE 432, AE 471, AE/CE 542, BE 462, CE 410W, RM 303, RM 450**

_____ Course name and number	_____ Number of credits	_____ Anticipated Semester Taken
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_____ Course name and number	_____ Number of credits	_____ Anticipated Semester Taken
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_____ Course name and number	_____ Number of credits	_____ Anticipated Semester Taken
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Please submit completed registration to:
Hankin Chair Adviser
Civil and Environmental Engineering
219 Sackett Building
University Park, PA 16802

Hankin Chair Adviser Signature **Date**



NAHB Student Chapter Residential Construction Management Competition

Introduction

The NAHB Student Chapter Residential Construction Management Competition is one of the highlights at the annual NAHB International Builders' Show. The competition, held in conjunction with the NAHB convention, is an effort to give students the opportunity to apply the skills learned in the classroom to a real construction project. Students work on a real estate development proposal for a specific project by completing a market analysis, land development, site and housing design, cost estimate, schedule, cash flow forecast, marketing strategies, and other essential elements of the proposal. The proposals developed as full investment prospectus are then submitted to a group of construction company executives who act as judges. Last year, 35 NAHB Student Chapters from across the nation participated in the competition.

Mission

The competition was established to give students an opportunity to demonstrate their ability to solve construction related problems and to compete with other institutions offering a bachelor's degree in residential construction related majors. Participants will obtain a real life experience in the residential construction business environment and gain valuable insight into their future career.

Eligibility

All PSU student chapter members are eligible to participate in the project; however, only a team of **no more than six student members** will be selected to participate in the 2016-2017 Residential Construction Management Competition at the International Builders Show. The individual team members must be undergraduate students who are active members of the PSU Student Chapter, and must be available to travel from January 7 – 13, 2017 to participate in the Residential Construction Management Competition at the International Builders Show in Orlando, FL. Students who will graduate in the fall 2016 semester are eligible to compete as a team member.

Requirements

The Residential Construction Management Competition TEAM (up to six members) **will be required to:**

- Attend the Hankin Committee Meeting on **November 10, 2016**. The team (or at least 2 representatives from the team) needs to give a 15-minute presentation (preferably Powerpoint) about their construction project. See Sarah Klinetob Lowe for details.
- Attend the NAHB Awards Banquet on **November 10, 2016 from 6:00-9:00 p.m.** The entire team needs to be present to receive their travel award; however, 2 representatives from the team need to give a 15-minute presentation (Powerpoint) about their construction project.
- Participate in the Residential Construction Management Competition at the International Builders Show in Orlando, Florida from **January 7-13, 2017**.
- In order to recognize significant academic value of the work leading to a competition project, a 1-credit course CE 411 – Residential Construction Design Project was established. Students must obtain permission from Dr. Ali Memari to register for the course.

NAHB Student Chapter Scholarship Program

Eligibility

With the support of the National Association of Home Builders (NAHB), the Pennsylvania Builders Association (PBA) and industry, a scholarship program has been established.

Penn State NAHB student chapter members who are interested in financial support are encouraged to apply for a scholarship. Consideration for scholarships will be given to Penn State students who are interested in and have a commitment to housing. Awards are open to, but not limited to, students who are enrolled in the Departments of Agricultural and Biological Engineering, Architecture, Architectural Engineering, and Civil & Environmental Engineering.

Scholarship applications will be accepted for 2016-2017 until **Friday, September 30, 2016**. The Hankin Committee will vote on the scholarship submissions and winners will be announced at the NAHB Awards Banquet on **Thursday, November 10, 2016, 6:00 P.M.** at the Nittany Lion Inn. **If you are submitting a scholarship application, please plan on attending the awards banquet.** Students applying for a scholarship must complete the requirements listed below.

Requirements

All applicants applying for a SCHOLARSHIP must submit:

- (1) a completed **"Scholarship Application Form"**
- (2) an **"Unofficial Transcript"** through Spring/Summer 2016
- (3) an **"Academic Course Plan"** (listing of courses you plan to take for your remaining time at PSU)
- (4) a statement of **"Career Objectives"** (both short- and longer-term) and their connection with housing

The statement of Career Objectives should be typewritten (2 pages maximum) and should indicate how your objectives relate to the residential and light-commercial building construction industry (i.e., family ties to the industry, desire to work for a residential development or engineering/surveying firm associated with the industry, desire to eventually manage one's own firm, etc.). Be sure to include any other pertinent information concerning your circumstances that might be helpful in assessing your application, such as:

- a) your work related experiences (including part-time, summer, etc.)
- b) your involvement in the NAHB Student Chapter
- c) honors or awards that you have received
- d) residential design or construction or real estate courses that you have taken while at Penn State or elsewhere
- e) some indication of your financial situation (i.e., financial need - if you wish to do so)

Submit application form to Sarah K. Lowe, 219 Sackett Building by 4 p.m. on **Friday, September 30, 2016**.

BOXED AREA FOR OFFICE USE ONLY

MAJOR _____	CUMULATIVE GRADE-POINT AVERAGE _____ (through the Spring Semester 2016)	DATE _____
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**RESIDENTIAL BUILDING CONSTRUCTION INDUSTRY
SCHOLARSHIP APPLICATION FORM**

If applying for a NAHB Scholarship, please complete and return this application to Sarah K. Lowe - PHRC, 219 Sackett Building, on or before **4 p.m. on Friday, September 30, 2016**

Please include:

- an **“Unofficial Transcript”** through Spring/Summer 2016,
- an **“Academic Course Plan”** (listing of courses you plan to take for your remaining time at PSU)
- a 2-page typewritten statement of **“Career Objectives”** (both short- and longer-term) and the connection with housing (for details – see “Eligibility and Requirements for the NAHB Student Chapter Scholarship Program”).

Name: _____
Last Name First Name M.I.

Local Address: _____
Street City/State/Zip Code

Local Telephone Number: _____

Home Address: _____
Street City/State/Zip Code

Home Telephone Number: _____

Date of Birth: _____ **Student ID #:** _____ **E-mail:** _____

Semesters you will have completed (at any institution) at the end of the Fall Semester 2016: _____

Expected Date of Graduation: _____ **Major** _____

Current Faculty Advisor: _____

Credits planned per semester: Fall 2016 _____ Spring 2017 _____

NOTE: By submitting this application, you give permission to email/distribute your information to the committee. Scholarships will be awarded at the NAHB Award Banquet on **Thursday, November 10, 2016.**