

2016-2017

Ryan Family Student Center

14 Deike Building

University Park, PA 16802

http://www.ems.psu.edu/current_students

Phone: 814-863-2751

Fax: 814-863-3349

Email: studentcenter@ems.psu.edu



PennState
College of Earth
and Mineral Sciences

Undergraduate Student Handbook

MESSAGE FROM THE DEAN

Welcome to the College of Earth and Mineral Sciences at Penn State! By studying materials, energy, the environment, natural resources, weather, climate, people, and places, our students are able to make a difference in the lives of people throughout the world. You are joining a remarkable community of faculty, staff, and students who are excited to help you develop the skills and experience needed to pursue your career goals.

Take advantage of all the resources available to you, both within the College of Earth and Mineral Sciences and at Penn State. The Ryan Family Student Center, 14 Deike Building, houses an incredible staff of tutors and advisers who are an invaluable resource to help you foster a successful Penn State experience. Many EMS students call the Ryan Family Student Center a “home away from home,” as it provides a welcoming atmosphere where students can gather to study, relax, and socialize, in addition to utilizing the many services provided.

Beyond course work, I encourage you to pursue a well-rounded experience. Branch out and find a student organization that shares your interests, whether that’s joining the EMS Student Council, participating in THON, or connecting with peers with similar interests. There are thousands of organizations on campus. Our alumni always reflect on the tremendous difference that those connections — with peers, staff, and faculty — made in their careers.

College is a time of extraordinary freedom and a time of new social experiences and challenges in the midst of the academic challenges. We want to help you exceed your academic objectives, to enjoy both the rich experience of social life at this university while achieving the knowledge you need for your future career.

Enjoy, succeed, and take advantage of all our college has to offer!

William E. Easterling
Dean, College of Earth and Mineral Sciences

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RYAN FAMILY STUDENT CENTER

14 Deike Building 814-863-2751 or 814-865-7482
Web address: http://www.ems.psu.edu/student_center
Facebook: <https://www.facebook.com/groups/103366709698590/>
Twitter: @rfscpennstate

Associate Dean for Undergraduate Education	Yvette Richardson	yrichardson@psu.edu
Assistant to the Associate Dean <i>Commencement/Petitions</i>	Martha Traverse	mjt5@psu.edu
Director of Academic Advising <i>DUS Programs Coordinator</i>	Hilleary Himes	hxs220@psu.edu 814-863-2751
Giles Writer-in-Residence, Writing Tutor	Del Bright	kdb9@psu.edu 814-863-6077
Mathematics and Physics Tutor	C. James Kelly	cjk133@psu.edu 814-865-6350
Recruiter/Academic Adviser	Stacy Davidson	sjp123@psu.edu 814-863-2751
Academic Adviser	Sylvia Deng	xod5003@psu.edu 814-863-2751
Information Technology Tutor	Tim Robinson	robinson@ems.psu.edu 814-863-9691
Administrative Coordinator <i>Curriculum/Instruction</i>	Linda Spangler	lqs9@psu.edu 814-863-5517
Administrative Assistant <i>RFSC Programs/Operations</i>	Danielle Palmer	dmp35@psu.edu 814-865-9921

FLETCHER L. BYROM EMS LIBRARY

105 Deike Building, 814-865-9517

Web address: <http://www.libraries.psu.edu/ems>

Librarian

Linda Musser

lrm4@psu.edu

814-863-7073

Hours: Monday - Thursday: 7:45 a.m. - 11:00 p.m.

Friday: 7:45 a.m. - 6:00 p.m.

Saturday: 1:00 p.m. - 5:00 p.m.

Sunday: 1:00 p.m. - 11:00 p.m.

Email Contact:

UL-EMS@lists.psu.edu

Twitter:

EMSLibraryPSU

Facebook:

EMSLibrary

Details about group study rooms URL is:

libraries.psu.edu/service/rooms-spaces/group-study-rooms-university-park

The library has laptops, Chromebooks and iPads available for loan. Also available are: textbooks, calculators, battery packs, phone and computer cords, headphones, t-squares and other drafting supplies.

EMS MUSEUM & ART GALLERY

19 Deike Building

Web Address: <http://www.ems.psu.edu/outreach/museum/>

Museum Director

museum@ems.psu.edu

Russell Graham

203 Deike Building

rwg12@psu.edu

814-865-6336

Assistant Director

Julie Snyder

jxs1030@psu.edu

814-571-6317

Hours: Monday - Friday: 9:30 a.m. - 5:00 p.m.

EMS Departments and Programs

John and Willie Leone Family Department of

ENERGY AND MINERAL ENGINEERING (EME)

110 Hosler Building 814-865-3437

Web address: <http://www.eme.psu.edu>

Department Head	Turgay Ertekin 118 Hosler Building	eur@psu.edu 814-865-6082
Academic Adviser	Alisha Simon 109 Hosler Building	anw114@psu.edu 814-867-5271
Associate Department Head	Seth Blumsack 115 Hosler Building	sab51@psu.edu 814-863-7597
Undergraduate Programs Staff Assistant	Jenna Eldreth 115 Hosler Building	jme5033@psu.edu 814-863-5566

Majors

Energy Business and Finance (EBF)

<http://www.eme.psu.edu/ebf/>

Undergraduate Program Officer

Seth Blumsack

814-863-7597

153 Hosler Building

sab51@psu.edu

Options: General (GEN)
Energy Land Management (ENLNM)

Energy Engineering (ENENG)

<http://www.eme.psu.edu/eneng>

Undergraduate Program Officer

Sarma Pisupati

sxp17@psu.edu

126B Hosler Building

814-865-0874

Environmental Systems Engineering (ENVSE)

<http://www.eme.psu.edu/envse>

Undergraduate Program Officer

Thaddeus Ityokumbul

mti1@psu.edu

204 Hosler Building

814-863-0375

Options: Environmental Systems Engineering (ENVSE)
Environmental Health and Safety (ENVHS)

Mining Engineering (MNG E)

<http://www.eme.psu.edu/mnge>

Undergraduate Program Officer

Jeffrey Kohler

jk9@psu.edu

155 Hosler Building

814-865-9834

Energy and Mineral Engineering (EME) Majors (continued)

Petroleum & Natural Gas Engineering (PNG E)

<http://www.eme.psu/pnge>

Undergraduate Program Officer

Russell Johns

rtj3@psu.edu

119 Hosler Building

814-865-0531

Energy and Sustainability Policy (ESPBA) and (ESPBS)

<https://esp.e-education.psu.edu/>

(On-line major available only at World Campus)

Undergraduate Program Officer

Vera Cole

vjc12@psu.edu

Program Staff

Susan Spaugh

sns4@psu.edu

418 Earth Engineering
Science Building

814-863-2502

Minors

Please visit the website to learn more about the following minors:

<http://www.eme.psu.edu/academics/undergraduate/minors-options>

- Electrochemical Engineering (ELCHE)
- Energy Business and Finance (EBF)
- Energy Engineering (ENENG)
- Environmental Systems Engineering (ENVSE)
- Mining Engineering (MNG E)
- Petroleum and Natural Gas Engineering (PNG E)

GEOGRAPHY

302 Walker Building 814-865-3433

Web Address: <http://www.geog.psu.edu>

Department Head	Cynthia Brewer 325 Walker Building	cab38@psu.edu 814-865-5072
Undergraduate Adviser	Jodi Vender 305 Walker Building	jvender@psu.edu 814-863-5730
Undergraduate Program Officer	Donna Peuquet 306 Walker Building	djp11@psu.edu 814-863-0390
Undergraduate Administrative Support/Receptionist	Melissa (Missy) Fischer 302 Walker Building	mkf15@psu.edu 814-865-3433

Majors

<http://www.geog.psu.edu/undergrad>

Geography B.A. (GEOBA)

Options: General (GEN)
Human Geography (HGEOG)
Nature-Society Geography (NTSCG)

Geography B.S. (GEOBS)

Options: General (GEN)
Geographic Information Systems (G I S)
Physical /Environmental (EGEOG)

Minors

Please visit the website to learn more about the following minors:

<http://www.geog.psu.edu/undergraduate-program-information>

- Climatology (CLIMA)
- Environmental Inquiry / EMS (ENV I)
- Geographic Information Science (G I S)
- Geography (GEOG)
- Information Science and Technology - for EMS (ISEMS)
- Watersheds and Water Resources (W W R)

GEOSCIENCES

508 Deike Building 814-865-7791

Web Address: <http://www.geosc.psu.edu>

Department Head	Lee Kump 503 Deike Building	lkump@psu.edu 814-863-1274
Associate Department Head for Undergraduate Programs	Maureen Feineman 508 Deike Building	feineman@psu.edu 814-865-7400
Undergraduate Programs Coordinator Advising Support	Jake Hoover 542 Deike Building	jd292@psu.edu 814-865-7791

Majors

<http://www.geosc.psu.edu/undergraduates>

Geosciences B.S. (GSCBS)

Options: General (GEN)
Hydrogeology (HYDRO)

Geosciences B.A. (GSCBA)

Earth Sciences (EARTH)

Geobiology (GEOBI)

Earth Sciences and Policy (EARSP)

Options: Climate Change (CLCHG)
Energy (ENRGY)
General (GEN)
Water and Land Use (WTRLU)

Minors

Please visit the website to learn more about the following minors:

<http://www.geosc.psu.edu/node/1080>

- Astrobiology (ABIOL)
- Earth Systems (EASYS)
- Geosciences (GEOSC)
- Geophysics (GPHYS)

MATERIALS SCIENCE AND ENGINEERING

225 Steidle Building 814-865-5765

Web address: <http://www.matse.psu.edu>

Department Head	Susan Sinnott	sinnott@matse.psu.edu 814-863-3117
Administrative Coordinator	Katina Bartley-Posney	katina@matse.psu.edu 814-865-0497
Associate Head for Undergraduate Studies	R. Allen Kimel	kimel@matse.psu.edu 814-865-5397
Academic Adviser/Recruiter	Meg Abplanalp	mba12@psu.edu 814-865-5765
Records Specialist	Cindy Lake	lake@matse.psu.edu 814-865-5766

Major

<http://www.matse.psu.edu/undergraduate/curriculum>

Materials Science and Engineering (MATSE)

Minors

Please visit the website to learn more about the following minors:

<http://www.matse.psu.edu/undergraduate/curriculum#minors>

- Electronic and Photonic Materials (EPM)
- Polymer Science (PLMSC)

METEOROLOGY AND ATMOSPHERIC SCIENCE

503 Walker Building 814-863-8565

Web Address: <http://www.met.psu.edu>

Department Head	David Stensrud	David.stensrud@psu.edu 814-863-7714
Associate Head Undergraduate Program	Jon Nese 518 Walker Building	j2n@psu.edu 814-863-4076
Undergraduate Coordinator Advising Contact	Jackie Gibboney 502 Walker Building	jag545@psu.edu 814-863-8565
Joel N. Myers Weather Center Director	Bill Syrett 606C Walker Building	wjs1@psu.edu 814-865-6172

Major

<http://www.met.psu.edu/academics/undergraduate-studies>

Meteorology (METEO)

Options: Atmospheric Sciences (ATMSC)
 Environmental Meteorology (ENVME)
 General (GEN)
 Weather Forecasting & Communications (FCAST)
 Weather Risk Management (WRM)

Minor

Please visit the website to learn more about the following minors:

<http://www.met.psu.edu/academics/undergraduate-studies/advising>

- Meteorology (METEO)

Minors in EMS

Please visit this website to learn more about the following minors:

http://www.ems.psu.edu/prospective_undergrad_students/degree_programs

- Astrobiology (Intercollege Program)
- Climatology
- Earth Systems
- Electrochemical Engineering
- Electronic and Photonic Materials
- Energy Business and Finance
- Energy Engineering
- Environmental Inquiry (Intercollege Program)
- Environmental Systems Engineering
- Geographic Information Science
- Geography
- Geophysics
- Geosciences
- Information Science and Technology - for EMS
- Meteorology and Atmospheric Science
- Mining Engineering
- Petroleum and Natural Gas
- Polymer Science
- Watersheds and Water Resources

In most cases, students do not have to be enrolled in the college that offers a particular minor in order to pursue that minor. Requirements for a minor can be completed at any campus location that offers courses specified for the minor.

EMS Undergraduate Student Organizations

EARTH AND MINERAL SCIENCES STUDENT COUNCIL

http://www.ems.psu.edu/prospective_undergrad_students/student_life/student_council

Adviser:	Linda Spangler lqs9@psu.edu	14 Deike Building 814-863-5517
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EARTH AND MINERAL SCIENCES SPECIAL LIVING OPTION (IRVIN HALL)

http://www.ems.psu.edu/prospective_undergrad_students/student_life/irvin_hall

Adviser:	Bill Syrett wjs1@psu.edu	606C Walker Building 814-865-6172
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ENERGY AND MINERAL ENGINEERING

<http://www.eme.psu.edu/academics/student-orgs>

- American Association of Drilling Engineers Penn State Student Chapter
- American Solar Energy Society – Penn State Chapter
- Energy Business and Finance Society
- Energy Land Management Society
- Society of Energy Engineers
- Society of Environmental Systems Engineers
- International Society of Explosives Engineers Student Chapter
- Society of Mining Engineers
- Society of Petroleum Engineers Penn State Student Chapter

GEOGRAPHY

<http://www.geog.psu.edu/about-us/groups-and-organizations>

- Undergraduate Department of Geography Students (UnderDoGS)
- Gamma Theta Upsilon (GTU)
- Supporting Women in Geography (SWIG)
- GIS Coalition

GEOSCIENCES

<http://www.geosc.psu.edu/student-life>

- Penn State Geological Sciences Club

MATERIALS SCIENCE AND ENGINEERING

<http://www.matse.psu.edu/undergraduate/student-organizations>

- Keramos National Professional Ceramic Engineering Fraternity
- Material Advantage and Materials Research Society
- MATSE Lion Scouts

METEOROLOGY AND ATMOSPHERIC SCIENCE

<http://www.met.psu.edu/academics/undergraduate-studies/organizations-and-clubs>

- Campus Weather Service (CWS)
- Chi Epsilon Pi Honor Society
- Penn State Branch, American Meteorological Society and National Weather Association (PSUBAMS)
- Severe Weather Interest Group
- PSU Storm Chase Team (PSU Chase)
- Supportive Network for Women in Meteorology (SWIM)
- Weather Risk Management Club

GEMS

Graduates of Earth and Mineral Sciences Alumni Society

http://www.ems.psu.edu/alumni_friends/gems_alumni

The EMS alumni constituent society, GEMS (Graduates of Earth and Mineral Sciences), was formed in 1990. As a society, it serves alumni, students, faculty, and the College of Earth and Mineral Sciences by building lifelong relationships that enable students to achieve their goals in an increasingly global and diverse workplace.

The society is led by a Board of Directors that is representative of the diverse EMS alumni body and its interests. A formal committee structure facilitates program planning and activities that support the GEMS mission. These activities include regional alumni events, the GEMS tailgate, reunion weekend lunches, recruiting, student mentoring, TOTEMS, EMEX, commencement receptions, and contributions to publications.

As a student, you benefit from the experience and success of those who went before you. As an EMS graduate, you will have the insight and perspective to become a critical component of the EMS network through our alumni society. A one-year membership is automatically awarded upon graduation. Become familiar now with GEMS and plan to continue your Penn State relationship through the years.

Do you want to receive Penn State Alumni Association (PSAA) member benefits while you are still a student? Interested in joining the biggest, the best, and the most ambitious association in the world? For nearly 135 years, the PSAA has been the keeper of Penn State pride and traditions. You can become a member of the Blue & White Society, the student contingent of the largest dues-paying alumni association in the world! If you are interested, please visit: <http://alumni.psu.edu/students/blue-white-society>.

EMS College Liaison: Colleen Swetland
Assistant Director, Alumni Relations
116 Deike Building
814-863-4667
clw2@psu.edu

Diversity in EMS and at Penn State

http://www.ems.psu.edu/educational_equity/

Diversity, equity, and inclusive excellence play a central role in our College's core mission to prepare our students to live, work, and lead in a global environment. The College of Earth and Mineral Sciences' broad and multifaceted diversity efforts are inclusive of nationality, ethnicity, race, gender, sexual orientation, gender identity, age, ability, veteran status, socio economic status, first generation to college status, and religion and apply to students, faculty, staff.

The Office of the Associate Dean for Educational Equity assesses and improves the diversity of the College and supports underrepresented students. To learn more about the Office of Educational Equity, visit http://www.ems.psu.edu/educational_equity/.

We highly recommend these important references for our students:

A Framework to Foster Diversity at Penn State <http://equity.psu.edu/framework>

Penn State Statement on Diversity, Equity, and Inclusive Excellence

<http://equity.psu.edu/diversity-statement>

James Guyton

Coordinator of Multicultural Affairs,
Office of the Associate Dean for Educational Equity
204 Deike Building
jrg6@psu.edu
814-867-2455

Victoria E. Sanchez

Associate Dean for Educational Equity
204 Deike Building
vsanchez@psu.edu
814-867-2455

Lori Robinson

Administrative Support Coordinator
204 Deike Building
814-867-2455
Lrr5@psu.edu

Penn State's Nondiscrimination Statement

Penn State is committed to equal access to programs, facilities, admission, and employment for all persons. It is the policy of the University to maintain an environment free of harassment and free of discrimination against any person because of age, race, color, ancestry, national origin, religion, creed, service in the uniformed services (as defined in state and federal law), veteran status, sex, sexual orientation, marital or family status, pregnancy, pregnancy-related conditions, physical or mental disability, gender, perceived gender, gender identity, genetic information, or political ideas. Discriminating conduct and harassment, as well as sexual misconduct and relationship violence, violates the dignity of individuals, impedes the realization of the University's educational mission, and will not be tolerated. Direct all inquiries regarding the nondiscrimination policy to Dr. Kenneth Lehrman III, Vice Provost for Affirmative Action, Affirmative Action Office, The Pennsylvania State University, 328 Boucke Building, University Park, PA 16802-5901; email: kfl2@psu.edu; tel. 814-863-0471.

The RFSC is an LGBTQ Safe Zone

As part of our college mission for inclusivity and respect, we are happy to welcome all members of the LGBTQ community into the Ryan Family Student Center. Lesbian, Gay, Bisexual, Transgender and Queer individuals are encouraged to visit Martha Traverse in 14G, who is a PSU Safe-Zone trained employee. She will be happy to discuss LGBTQ-related issues and/or assist students who want to know more about campus and local resources for LGBTQ students. Either drop by in person, or email mjt5@psu.edu. Privacy, discretion and confidentiality are assured.

EMS Listservs

The College of Earth and Mineral Sciences wants you to stay informed. Access your Penn State email account regularly! You will be on a college-wide undergraduate email listserv. Very likely, you will also be on a listserv for your academic department. Not all news items will affect you personally, but by ignoring these messages you may miss critical information.

STAY CONNECTED!!!!

TWITTER: [@rfscpennstate](https://twitter.com/rfscpennstate)

Earth and Mineral Sciences Academy for Global Experiences (EMSAGE)

What is EMSAGE?

The Earth and Mineral Sciences Academy of Global Experience (EMSAGE) is an engaged scholarship program. Notable distinction is obtained through demonstration of high achievement in the following areas:

- Scholarship
- Experiential Learning
- Global Literacy
- Service

What are the Benefits of Graduating as an EMSAGE *Laureate*?

Students pursue activities and have accomplishments that demonstrate breadth and depth in the areas of:

- Global Awareness
- Professional and Civic Service
- Leadership

Additional benefits include:

- Enhanced résumé
- Competitive edge in the global economy
- Formal recognition at commencement
- Crystal *Laureate* memento and certificate
- Name enshrined on the EMSAGE *Laureate* roster in the Ryan Family Student Center

How do I Become an EMSAGE *Laureate*?

Students are encouraged to actively plan their academic and professional development in pursuit of *Laureate* status. Set goals that are consistent with your interests, and develop a plan to achieve them! Seek input from your faculty mentors and advisers. Keep a portfolio of your activities and accomplishments.

- Must apply in the semester of your graduation (or in spring, for summer graduates)
- Must have a minimum cumulative grade point average of 3.0 to apply

Want to learn more? Visit www.ems.psu.edu/EMSAGE for additional information and attend the EMSAGE information sessions held each semester.

Safety First

Your health and safety here in the College of Earth and Mineral Sciences and within the University are our principal concerns. You can access safety policies at: http://www.ems.psu.edu/faculty_staff/safety. If you become aware of any hazard, the relevant safety office listed below.

EMS Safety Contacts

Rhonda Stoner College Safety Officer	248 Deike Building	814-865-5709 rqs8@psu.edu
Elizabeth Long EMS Library	105 Deike Building	814-863-3720 lms4@psu.edu
Tom Motel Energy and Mineral Engineering	107 Hosler Building	814-863-1635 eal17@psu.edu
Bob Hibbert Geography	302 Walker Building	814-865-8116 rlh23@psu.edu
Scott Henninger Materials Science and Engineering	123A Steidle Building	814-865-3568 shenninger@psu.edu
Bob Ziegler Meteorology	426 Walker Building	814-863-4526 rfz1@psu.edu
Marty Gutowski Dutton Institute	419 Earth Engineering Science Building	814-863-9071 mjg8@psu.edu
Ron Wasco Energy Institute	209 Academic Activities	814-863-5384 rxw19@psu.edu
Denny Walizer Geosciences	18 Hosler Building	dpw3@psu.edu 814-863-2023
Matt Carroll Earth and Environmental Systems Institute	226C Earth Engineering Science Building	mjc48@psu.edu 814-865-4504

Financial Aid

http://www.ems.psu.edu/prospective_undergrad_students/financial_aid/sources

Merit Scholarships

The College of Earth and Mineral Sciences annually awards more than \$500,000 in scholarship support to students based on academic excellence. The completion of an online application is required each year to receive consideration. Freshmen are not eligible for merit scholarships.

The application is available January 1st through April 15th at the following link:
<http://www.ems.psu.edu/emsscholarships>

Trustee Scholarships (Need Based)

The college awards over \$400,000 annually to students who are eligible for Trustee Scholarships, which are “need-based.” A FAFSA (Free Application for Federal Student Aid) must be completed EACH YEAR in order for the University to determine eligibility.

Emergency Grants

The Terry Mohney Emergency Assistance Fund was created to assist students who encounter extraordinary events or circumstances that could negatively affect their ability to continue their studies in the College of Earth and Mineral Sciences. Emergency grants are awarded on a case-by-case basis and can be given to a student no more than once per academic year. The maximum grant is \$250. Limited funding is available. The application is available at: http://www.ems.psu.edu/prospective_undergrad_students/emergencyFund.

Department Scholarships

Please contact your department directly to inquire about scholarship opportunities.

Wilson Loan

Low-interest loans are available to all EMS students (including graduate students). Students may borrow up to \$1200 per semester (\$2400 per year) through the fund. No interest accrues until after graduation and repayment begins 6 months after termination of enrollment (graduation, withdraw from classes, leave of absence). The University assesses a 6% simple interest rate on these loans. Students may complete the application at any time. The application is available at: http://www.ems.psu.edu/prospective_undergrad_students/financial_aid/wilsonLoan

Additional University Resources: <http://www.psu.edu/studentaid>

University’s Undergraduate Fellowship Office: For more information, please visit:
<http://www.ufo.psu.edu>

Work Study

If you have a work study grant, use the eLion website (<https://elion.psu.edu>) to view available jobs. Learn more at: <http://www.psu.edu/studentaid/aidprog/wage.shtml>.

Academic Advising

http://www.ems.psu.edu/current_undergrad_students/academics

Academic Advising is an opportunity for you to engage with faculty and staff in the College of Earth and Mineral Sciences to identify academic goals, develop educational plans, and maximize your educational experience. We encourage students to take advantage of a wide array of learning opportunities including: study abroad, world languages, minors, and engaged scholarship.

It is the responsibility of all students to initiate contact with academic advisers, monitor their academic progress, and follow university policies.

Assigned Adviser

Your primary academic adviser is a faculty or staff member in your major or intended major. You can find your assigned adviser's contact information in the Student Center of LionPATH. Your assigned adviser is your best source of information regarding your major, course schedule planning, internships, and career planning.

Ryan Family Student Center Advisers

Ryan Family Student Center (14 Deike) advisers are available to answer questions regarding general education courses, exploring university programs and resources, and understanding academic policies.

Entering a Major

All first-year students and some advanced standing students are not enrolled in a major. Instead you are enrolled in the College's pre-major status. Pre-major status is appropriate to explore majors and meet entrance-to-major requirements, as required by the program.

Entry to the major of your choice can occur once you meet the criteria. Some majors have very specific requirements which may include a cumulative GPA and the successful completion of required coursework. Please work closely with your adviser to complete the entrance requirements for your major. Entrance To major requirements can be found at: <http://advising.psu.edu/entrance-major-requirements-college-earth-and-mineral-sciences>

Recommended Academic Plans: Recommended semester by semester plans are available for each major.

http://www.ems.psu.edu/current_undergrad_students/academics/course_scheduling/UP

Course Substitutions

Once you have declared your EMS major, all exceptions to degree requirements (as stated on the Recommended Academic Plan for your major) require completion of an EMS *Request for Exception to Program Requirements Form* (available in your department office or in the Ryan Family Student Center, 14 Deike). Such exceptions include course substitutions, course waivers, and exceptions to General Education requirements.

For substitutions in your major, you must work closely with your assigned adviser. Information on General Education substitutions is available at: <http://handbook.psu.edu/content/general-education#flexibility>

Add a Minor:

Many EMS students choose to augment their degree program with an accompanying area of expertise, called a minor. Minors require at least 18 credits. A minor may consist of course work in a single area or from several disciplines. In most cases, students do not have to be enrolled in the college that offers a particular minor in order to pursue that minor. EMS offers several disciplinary and interdisciplinary minors to complement almost any degree program. If you're interested in a minor that is offered outside of EMS, please contact an academic adviser to discuss your goals. <http://handbook.psu.edu/content/minors>

Additional Academic Advising Resources:

Academic Advising Portal: The Academic Advising Portal contains information about academic life at Penn State. You'll find the academic calendar and information on Faculty Senate policies, colleges, majors, and, minors. <http://www.advising.psu.edu>

Academic Requirements: The Academic Requirements report on LionPATH indicates how the courses you are taking and those you have completed fit the requirements for your major. To see how your courses satisfy requirements in your intended major, select the What if Report. Prepare for advising appointments by reviewing your Academic Requirements report or your What If Report. <http://launch.lionpath.psu.edu/>

Judicial Affairs Advising

<http://www.sa.psu.edu/ja/conduct.shtml>

Penn State has a disciplinary system that is in place to adjudicate cases of alleged violations by University students of the University's **Code of Conduct**, found at:

<http://studentaffairs.psu.edu/conduct/codeofconduct/>.

Students who are required to appear at any Penn State Judicial Affairs proceedings may request a **Judicial Affairs Adviser** to accompany them. These advisers are trained faculty or staff of the University who may assist the student in understanding the charges and what is entailed in a Disciplinary Conference and beyond, should the case go to the University Hearing Board. The JA Adviser may assist the student in the preparation and presentation of a defense, and may accompany the student to all discipline proceedings.

EMS has three trained JA Advisers, any one of whom is ready to assist you:

Martha Traverse
mjt5@psu.edu

14 Deike Building
814-863-4024

Timothy Robinson
tar5@psu.edu

14 Deike Building
814-863-9691

Jim Sloan
jls27@psu.edu

2217 EES Building
814-865-9226

Faculty Senate Petitions

There are two types of Senate petitions that we see most often. The first is a request for a **retroactive withdrawal** for a past semester (or semesters). The second is a request for a **retroactive late-drop** of a course (or courses) from a past semester.

Whatever your excuse for academic forgiveness, the basis of the excuse must include **extenuating circumstances outside of your control**. You will not be granted petition approvals simply due to poor academic performance, or the condition of your GPA, or because you "don't need" the course or courses to graduate. Losing financial aid due to being dropped from degree status is not a qualifying excuse, in and of itself. However, financial worries or burdens that were present before the drop action may be.

Please email Martha Traverse at mjt5@psu.edu to initiate the petition process. She will request an in-person interview with you, if necessary, upon receiving your draft petition letter. Do NOT contact the Faculty Senate directly.

Writing Tutoring

Recognizing the need for effective writing in the sciences and engineering, the College of Earth and Mineral Sciences provides free tutoring and instruction through the Giles Writer-in-Residence on writing to undergraduate students for help with anything from your paper assignments to your résumé and personal essays.

The Giles Writer-in-Residence can help students best if you understand its role as a tutor and recognize the students' responsibilities as a writer. A tutor's task is not to edit or rewrite students' papers, but to help students understand and employ effective writing principles. It is the student's responsibility in a tutorial session to prompt discussion by articulating key questions and writing challenges. Be prepared to take an active role in discovering how to improve your writing. The *process* of learning to write more effectively is as important as the *product*.

Students are encouraged to make a Writing Tutoring appointment via e-mail to the Giles Writer-in-Residence to guarantee a time-spot. Please be courteous to others and e-mail or call promptly to cancel your appointment if you are unable to attend your arranged time in order to allow another student to schedule during that time.

To get the most out of your tutoring session:

- Plan ahead. Writing well takes time.
- Bring your class assignment sheet to the tutoring session.
- Come prepared. Have specific questions.

Visit the Giles Writer-in-Residence blog to access writing tips and find helpful online writing resources: <http://sites.psu.edu/gileswriter/>

Contact information:

Del Bright, Giles Writer-in-Residence
14F Deike Building
kdb9@psu.edu
814-863-6077

Information Technology Tutoring

Our resident technology instructor provides IT assistance to support students' educational objectives including assistance in web page development, presentation software, and multi-media development. Our college has a cutting-edge Media Commons lab including a One-Button Studio to support students creating video and audio projects, located in 20 Hosler Building. Free printing is also available for EMS students in the RFSC Computer Lab.

Contact information: **Tim Robinson** 14A Deike Building tar5@psu.edu 814-863-9691

Mathematics and Physics Tutoring

Mathematics tutors are available:

Monday-Thursday evenings

5:30 p.m.- 8:00 p.m. in the Ryan Family Student Center (14 Deike)

All EMS math tutors can support Math 022, 026, 041, 140 and 141.

Some EMS math tutors will support Math 230, 231, and 251.

A detailed schedule of the EMS math tutor shifts will be posted in the Ryan Family Student Center at the beginning of each semester.

Supplemental help in physics is available:

Monday and Tuesday evenings

7:00 p.m. in the Ryan Family Student Center (14 Deike)

Supported courses include PHYS 211, 212, 213, 250 and 251.

*Please arrive **by 7:00 p.m.** if you are seeking physics help!

Contact Information:

James Kelly

14E Deike Building

cjk133@psu.edu

814-865-6350

Basic Academic and Classroom Concerns

<http://www.psu.edu/ufs/policies/>

Both students and instructors are expected to be familiar with and adhere to the policies detailed in *The University Faculty Senate Policies and Rules for Undergraduate Students*. These policies tell you what instructors expect from you and what you have a right to expect from them. The most pertinent policies are summarized below. Note how they define students' academic rights and enhance the exploratory nature of a semester's first ten calendar days for students.

Students should attend all classes and be responsible for all class work; instructors should provide an opportunity for students who miss classes for legitimate reasons (e.g., academic field trips, required athletic events, serious illness, etc.) to do make-up work. At the beginning of each course, it is the responsibility of the instructor to provide students with a statement clarifying the relevant criteria for academic integrity.

- It is understood that the rules of good scholarship apply in the College of Earth and Mineral Sciences. This means that students always submit their own work, or give proper credit when documenting sources or submitting work jointly. (See: www.ems.psu.edu/students/integrity/statement.html.)
- When submitting jointly prepared lab reports or work that has been revised from another class, a student's best bet is to exercise common sense and honesty. Plagiarism is always a serious offense.
- During the first ten days of a semester, students must be given written notification of general examination procedures, including those pertaining to the final examination. A student may drop a course during the first 10 calendar days of a semester without penalty; after the 10th day special circumstances apply, and the student should discuss these with an adviser.
- During the final week of classes, no examinations are to be scheduled (quizzes are permitted).
- Students have the right to expect instructors to act responsibly—therefore, to uphold University policies and to meet all classes. *Policies and Rules for Undergraduate Students* offers advice on how a student can resolve a legitimate complaint about an instructor (See "Resolution of Student Classroom Problems").
- Students not having the appropriate prerequisite courses or proper academic standing may be asked to drop courses during the first 10 days of classes.
- Professors in Earth and Mineral Sciences set high standards for classroom conduct. These include courtesy, tolerance, and an opportunity for all to realize their potential. In no case should there be any harassment, special privileges, or a chilly climate for anyone!

General University Policies & Rules

Your life at Penn State consists of much more than your coursework. You are part of a community. You have rights and privileges, but also policies to which you must adhere and rules you need to follow. All of these non-academic policies and rules can be accessed at <http://guru.psu.edu/policies/>. In particular, note the administrative policies and the safety policies.

Miscellaneous University Resources

Penn State University home page:	http://www.psu.edu
Penn State Office of Student Aid:	http://www.psu.edu/studentaid 314 Shields Building Telephone: 814-865-6301
Penn State Office of the Bursar:	103 Shields Building Telephone: 814-865-6528
Penn State Office of the Registrar:	112 Shields Building Telephone: 814-865-6357
Penn State Housing Assignment Office:	Telephone: 814-865-7501
Penn State Undergraduate Admissions Office	201 Shields Building Telephone: 814-865-5471
Penn State University Health Services:	Student Health Center Telephone: 814-863-0774
Transportation:	
Fullington Trailways (Local)	814-238-1100
Fullington Trailways (24 hours)	800-942-8287
CATA Local Buses	814-238-2282
AA Taxi 231-TAXI	814-231-8294
Nittany Taxi	814-867-4643
Handy Delivery Taxi	814-353-6001
Megabus	877-462-6342
Greyhound Lines	814-238-7971

Sign up for PSUAlert to receive emergency information.

PSUAlert is Penn State's emergency notification system. The system is used to alert members of Penn State's campus communities of emergencies, campus closings and other urgent information. Using this portal, students can choose to receive PSUAlert messages by text message, voice message and e-mail.

Sign up by visit <https://psualert.psu.edu/psualert/>. For Help with registration for PSUAlert or questions, contact IT Service Desk, 814-865-HELP (4357) or visit <http://news.psu.edu/PSUAlert-FAQs>.

University Contact information

- | | |
|---|--------------|
| • Emergency Services | 911 |
| • University Police | 814-863-1111 |
| • Environmental Health and Safety | 814-865-6391 |
| • Physical Plant Work Reception Center | 814-865-4731 |
| • Occupational Medicine | 814-863-8492 |
| • Counseling & Psychological Services (CAPS) | 814-863-0395 |
| • Main information telephone inquiries | 814-865-4700 |
| • http://www.psu.edu/contact-us | |

Academic Calendar

Please see the next three pages for FA2016, SP2017 and SU2017 academic calendars.

For a full detail of the university calendar information please visit the following web site:
http://www.registrar.psu.edu/academic_calendar/calendar_index.cfm

FALL 2016

Description	Day	Date
Intent to Graduate - Activation Period	Monday - Tuesday	August 15 - September 6
Leave of Absence - Deadline	Friday	August 19
¹ ³ Arrival Day - New Students	Friday - Saturday	August 19 - 20
¹ ³ Arrival Day - Returning Students	Saturday - Sunday	August 20 - 21
Student Registration - Deadline	Sunday	August 21
Classes Begin	Monday	August 22
² Regular Drop - Deadline	Saturday	August 27
² Regular Add - Deadline	Sunday	August 28 at 11:59 p.m. (ET)
² Late Drop Begins	Sunday	August 28
² Late Registration Begins	Monday	August 29
Labor Day Holiday - No Classes	Monday	September 5
Final Exam Conflict - Filing Period	Monday - Sunday	September 26 - October 16
² Late Drop - Deadline	Friday	November 11
Declare Minor - Deadline (Graduating Students)	Friday	November 11
Thanksgiving Holiday - No Classes	Sunday - Saturday	November 20 - 26
Withdrawal - Deadline	Friday	December 9
Classes End	Friday	December 9
³ Study Days	Saturday - Sunday	December 10 - 11
³ Final Exams	Monday - Friday	December 12 - 16
³ Commencement	Saturday	December 17

SPRING 2017

Description	Day	Date
Intent to Graduate - Activation Period	Monday - Monday	January 2 - 23
Leave of Absence - Deadline	Friday	January 6
¹ ³ Arrival Day - New Students	Saturday	January 7
Student Registration - Deadline	Sunday	January 8
Classes Begin	Monday	January 9
² Regular Drop - Deadline	Saturday	January 14
² Regular Add - Deadline	Sunday	January 15 at 11:59 p.m. (ET)
² Late Drop Begins	Sunday	January 15
² Late Registration Begins	Monday	January 16
Martin Luther King Day - No Classes	Monday	January 16
Final Exam Conflict - Filing Period	Monday - Sunday	February 13 - March 5
Spring Break - No Classes	Sunday - Saturday	March 5 - 11
² Late Drop - Deadline	Friday	April 7
Declare Minor - Deadline (Graduating Students)	Friday	April 7
Withdrawal - Deadline	Friday	April 28
Classes End	Friday	April 28
³ Study Days	Saturday - Sunday	April 29 - 30
³ Final Exams	Monday - Friday	May 1 - 5
³ Commencement	Friday - Sunday	May 5 - 7

SUMMER 2017

Description	Maymester	1st Six-Week Session	2nd Six-Week Session
¹ Arrival Day - New Students	Sun, May 7	Sun, May 14	Sun, June 25
Registration - Deadline	Sun, May 7	Sun, May 14	Tues, June 27
Intent to Graduate - Activation Period	Mon - Fri, May 8 - June 16	Mon - Fri, May 8 - June 16	Mon - Fri, May 8 - June 16
Classes Begin	Mon, May 8	Mon, May 15	Wed, June 28
² Regular Drop - Deadline	Tues, May 9	Tues, May 16	Thurs, June 29
² Regular Add - Deadline	Wed, May 10 at 11:59 p.m. (ET)	Wed, May 17 at 11:59 p.m. (ET)	Fri, June 30 at 11:59 p.m. (ET)
² Late Drop Begins	Wed, May 10	Wed, May 17	Fri, June 30
² Late Registration Begins	Thurs, May 11	Thurs, May 18	Sat, July 1
Memorial Day Holiday - No Classes	Mon, May 29	Mon, May 29	-----
Independence Holiday - No Classes	-----	-----	Tues, July 4
² Late Drop - Deadline	Tues, May 30	Thurs, June 15	Tues, August 1
Declare Minor - Deadline (Graduating Students)	-----	-----	Tues, August 1
Withdrawal - Deadline	Mon, June 5	Fri, June 23	Wed, August 9
Classes End	Mon, June 5	Friday, June 23	Wed, August 9
Study Days	Tues, June 6	Sat - Sun, June 24 - 25	Thurs, August 10
Final Exams	Wed, June 7	Mon, June 26	Fri, August 11
Commencement	Sat, August 12	Sat, August 12	Sat, August 12

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PennState

- AAD Agricultural Administration **B5**
AAD Agricultural Engineering **B4**
AGI Ag. Science & Industries **B5**
ASI Althouse Lab **C4**
ATL Applied Research Lab **D2**
ARM Arnsby **C4**
BCS Bank of America Career Services **C5**
BYR Beaver Stadium **A8**
BYR Berkey Creamery **B5**
BBH Biobehavioral Health **D4**
BKS Bookstore **D4**
BRL Bourke **B4**
BKE Bryce Jordan Center **B8**
BUC Buckhout Lab **C4**
BUR Burrowes **C3**
BST Bus Station **D2**
BUS Business **B5**
CRG Carnegie **D3**
CDR CEDAR **B3**
CDR Chambers **D3**
CHB Chandee Lab **D4**
CHM Chemistry **C5**
CHM Davey Lab **D4**
DVL

- DKE Deike **D3**
EES Earth-Engineering Sci. **D1**
EAP East Parking Deck **C5**
EIS Eisenhower Auditorium **C5**
EPD Eisenhower Parking Deck **C5**
EEE Electrical Engineering East **D3**
EUN Electrical Engineering West **D3**
ENK Engineering Units (A-C) **D3**
FNG Fenske Lab **C4**
FDS Ferguson **C4**
FDS Food Science **B5**
FRR Ford **B3**
FRR Forest Resources **B5**
FRM Forum **B4**
FRM Fear North **C4**
FRS Fear South **C4**
GRN Grande **D5**
GIP Greenberg (Ice Pavilion) **C7**
HLB Holiba Hall **C7**
HMD Hammond **E3**
HND Health & Human Dev. **D4**
HND Henderson **D4**
HNG Hetzel Union Building (HUB) **D4**
HNB Hintz Family Alumni Center **D3**
HSL Holmes Hall **B4**
HSL Hoster **D3**
HSD HUB Parking Deck **D5**
HPS Huck Life Sciences **C5**

- IST Information Sciences and Technology **D2**
IM Intramural **B7**
KLR Kern **B3**
KRN Lasch Football Building **C7**
LFB Leonard **D1**
LND Mater **B3**
MTR McAllister **D4**
MCL McCoy Natatorium **B6**
NAT Natatorium Science Complex **C5**
MOR Moore **B3**
MLR Mueller Lab **C4**
MUS Music **B3**
MUS Music II **B3**
NLI Nittany Lion Inn **B2**
NLI Nittany Lion Shrine **C2**
NPD Nittany Parking Deck **B3**
NLI Noll Lab **D2**
NSB Nursing Sciences Bldg **D4**
OMN Old Main **D4**
OSM Osmond Lab **D4**
PMA Palmer Museum of Art **B4**
PSO Pasquerilla Spiritual Center **C3**

- PNL Paterno Library **C4**
PTL Pattee Library **C3**
PTN Patterson **C4**
PEG Pegula Ice Arena **C7**
PLK Pegula Library **D5**
PND Pond Lab **C4**
RKL Rackley **B3**
RKL Reber **D3**
RKL Rittenour **C5**
RKL Rittenour **C5**
ROB Robeson Cultural Center **D4**
SCT Sackett **D3**
SHC Schreyer Honors College **D5**
SCB Schultz Child Care Center **B3**
SCB Schwab Auditorium **D3**
SHD Shields **B7**
SPK Sparks **C3**
SDL Steidle **D3**

- SFB Stuckeman Family Building **B4**
STH Student Health Center **C5**
THR Theatre **B4**
TMS Thomas **C5**
TSN Tyson **C5**
VIS Visual Arts **B4**
WGR Wagner **B6**
WGR Walker **D2**
WTK Wartik Lab **C4**
WHT White **D5**
WML Whitmore Lab **C4**
WLD Willard **D3**

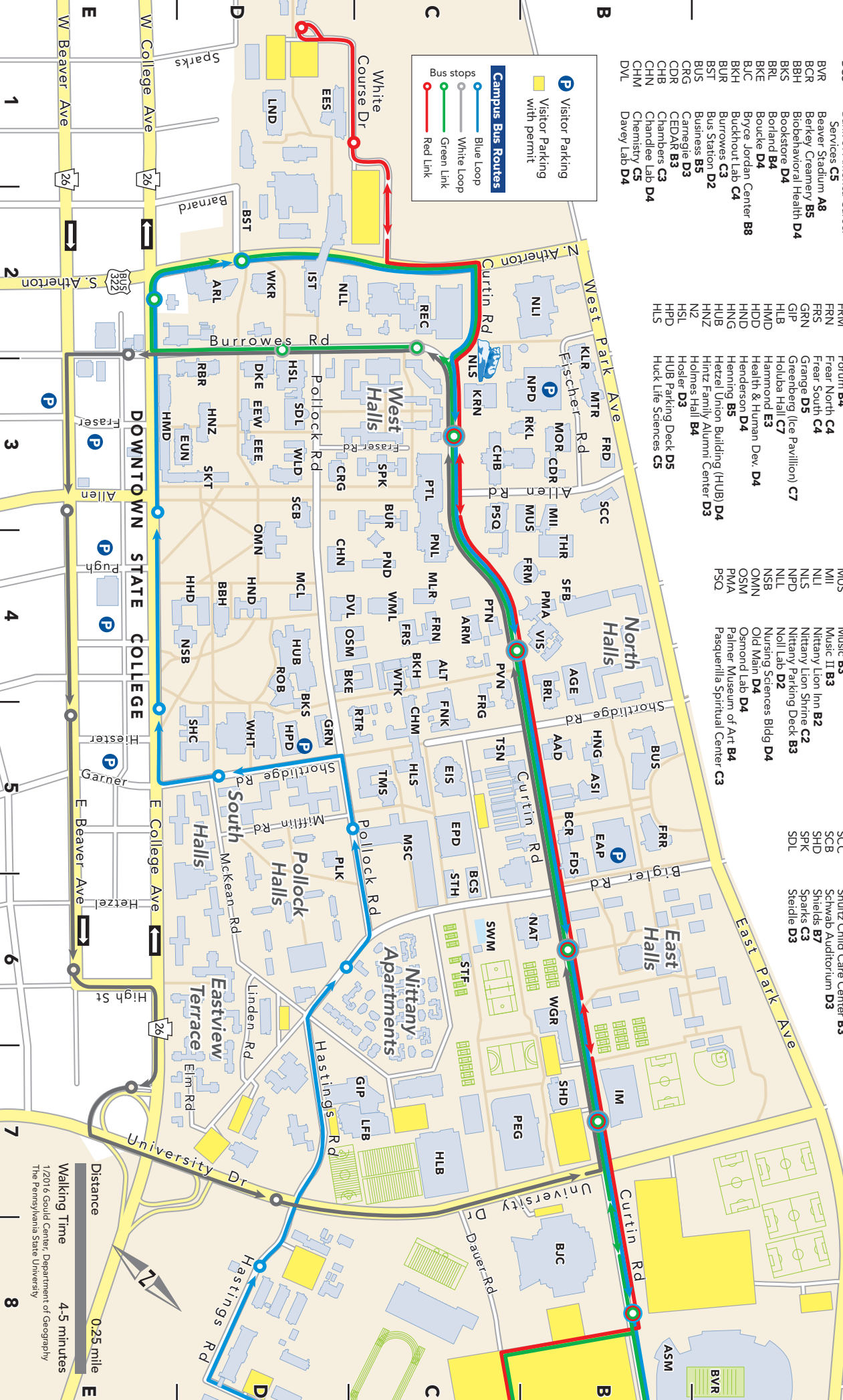
P Visitor Parking with permit

Campus Bus Routes

- Blue Loop
- White Loop
- Green Link
- Red Link

Bus stops

- Blue Loop
- White Loop
- Green Link
- Red Link



Distance 0.25 mile

Walking Time 4-5 minutes

1/2016 Gould Center, Department of Geography
The Pennsylvania State University