

ACADEMICS AND STUDENT SUPPORT

“Academics” isn’t the first section in this resource guide by accident or because that’s where it falls in alphabetical order. This section is full of information about things that should be at the top of every student’s list: curricular and library information, descriptions of support services, and co-curricular opportunities that enhance the classroom experience.

Curriculum

General Education

The academic core for students at The Ohio State University is the General Education program. General Education (GE) courses allow students to develop the fundamental skills essential for collegiate success across major programs. GE courses help students develop skills in writing and critical thinking; engage in topical contemporary issues; and increase understanding of diversity, the natural and social sciences, and the arts and humanities. Some colleges and schools also include basic aptitude in foreign language among GE requirements.

General Education options differ depending on each student’s college and type of degree; some courses are specified by degree programs. Beyond these discipline-related requirements, however, students will be able to choose from among many courses to complete their programs. Students have the opportunity to design a program tailored to their interests. Open options will allow students to choose course work involving service-learning or study abroad when those courses have been approved for General Education.

Students should reference college or school publications and consult with their academic advisors before scheduling classes to satisfy General Education requirements.

Major program curriculum

Each major program includes a curriculum that will prepare students for graduate school or career prospects in their fields. For the specific requirements of the curricula administered by a given college or school, students should consult with their advisors and visit the college or school website.

Calculation of GPA

To calculate grade point average:

1. Find the total number of credit points for each course. (Multiply credit hours of a course by credit points associated with the grade earned in the course.)
2. Find the total number of credit points for a term (add up the credit points for all classes for a term) and the total number of credit hours (add up credit hours for all courses attempted).

3. Divide the total number of credit points earned by the total number of credit hours. The quotient will be a number between zero and four that reflects the student’s average performance—the student’s point-hour ratio (PHR) or grade point average (GPA). (Only courses taken for a grade from A to E count in this ratio. There is no D-, E+ or A+.)

Grade	Credit Points	Grade	Credit Points
A	4.0	C	2.0
A-	3.7	C-	1.7
B+	3.3	D+	1.3
B	3.0	D	1.0
B-	2.7	E	0.0
C+	2.3		

Course	Credit Hours	Grade	Credit Points
Spanish 1103.01	04	B+ (3.3)	13.2 (=4x3.3)
Math 1148	04	C (2.0)	8 (=4x2.0)
English 1110.01	03	B+ (3.3)	9.9 (=3x3.3)
Psychology 1100	03	B (3.0)	9 (=3x3.0)
College Survey 1100	01	A (4.0)	4 (=1x4.0)
Total hours and points:	15		44.1

$$\text{Point-Hour Ratio} = \frac{\text{Total Credit Points Earned}}{\text{Total Credit Hours Attempted}}$$

In the example above, the total number of credit points is 44.1 and the total credit hours is 15. The GPA is 2.94. It is possible to talk about a student’s point-hour ratio for any group of courses he or she has taken (major courses, science courses or electives, for example). But the two groups of courses most commonly considered are all the courses taken during a given semester (the semester point-hour ratio) and the group of all courses the student has taken to date (the cumulative point-hour ratio or CPHR).

Academic Advising

Most incoming students enroll directly in the colleges that house their majors. Each college has professional advisors to assist students with any prerequisites to get into their majors, general course requirements, university procedures and special academic opportunities. Many students also have departmental faculty or professional advisors who serve as mentors and specialists for major-area information.

Undecided students, approximately 15 percent of each incoming class, enroll in University Exploration. In this program, students select a track that corresponds with their general interests and that leads them through the process of selecting a major. University Exploration also provides special career guidance linked to the selection of a major.

Students in all colleges participate in a four-year process of career development that begins with general knowledge during the first year and culminates with a senior-year advising program directed toward finding employment suitable to the fields in which they graduate. As part of this four-year career development process, many students elect to pursue internships, special cooperative education programs, research projects and unique employment opportunities.

Students will meet with advisors during orientation before their first term and work extensively with an advisor throughout the first term in the college Survey course. Most students will also meet one-on-one with an advisor to discuss personal academic issues.

Changing your major

Students who want to change majors use the advising system in one of two ways. If a student is certain of the new major, he/she moves directly into a relationship with an advisor in the new college who will explore the curriculum, majors and career options with the student. However, if students wish to sample courses in various majors before making a choice, they are supported in their original colleges/schools of enrollment as they explore a variety of majors. In this case, University Exploration will also help students determine which major is right for them.

Academic advisor partnership

Advisors partner with students at the university as students explore educational and professional opportunities, set appropriate goals and decide strategies for accomplishing those goals. In addition, advisors can provide a listening ear, share in students' achievements and disappointments, answer questions, and direct students to other appropriate university services. Advisors work closely with university faculty and administrators.

Why meet with an academic advisor?

- Register for classes, request information about academic programs, clarify policies and procedures.
- Understand degree requirements and monitor degree progress.

- Investigate majors, careers, internships and co-op programs.
- Discuss academic problems and share personal concerns.

What is the student's role in the advising partnership?

- Review academic records regularly and complete program requirements.
- Know how academic actions affect student status, prepare for advising appointments.
- Explore options, share information, ask questions, follow up, seek help before a situation becomes a crisis.

What is the advisor's role in the advising partnership?

- Provide accurate information and interpretation of policies and procedures.
- Listen to problems and concerns and make referrals for other services.
- Assist with course selection, help with goal setting, encourage career exploration.

Even though academic advisors will provide information and serve as consultants, students must understand degree requirements and know how those requirements will be satisfied.

First Year Experience

■ fye.osu.edu

National research and our own experiences suggest that a great first year goes a long way toward helping students get what they go to college for: a degree and learning that lasts a lifetime. First Year Experience (FYE) leads campus-wide, collaborative efforts to give new students the resources and support they need to make a smooth transition to Ohio State, return the next year, and ultimately graduate and become Buckeye alumni. FYE staff develops programs and communicates information to students to help them learn to navigate campus and available resources, join the conversation, and become Buckeyes.

Learn to navigate the university

Navigating campus doesn't just mean learning the bus routes and locations of buildings. FYE helps students learn about the people and resources available to them and where to turn for help.

Join the conversation

FYE strives to expose students to the many conversations that are happening all the time on campus—to emphasize that this is a place of intellectual inquiry. We want students to converse not just among themselves but with their resident advisors, with their faculty and with other staff. This is a learning community, and one that thrives on a diversity of opinion. We want students to feel a part of that right from the start.

Become Buckeyes

We know we have something special going on here—and it's not just in the stadium on football Saturdays, and it's not just knowing that the answer to a stranger's "O-H" in an airport

halfway around the world is, of course, “I-O.” We are a community proud of our traditions, our marching band, our campus, our academic programs and, most importantly, the experience that students have here. Becoming a Buckeye also means contributing to our community—it’s the volunteer work that our students do, it’s the appreciation of diversity that we have, it’s the way we treat each other and it’s the spirit of togetherness that makes our campus special.

FYE facilitates special programs and opportunities to help first-year students find friends among new and returning undergraduates; to help students adjust to college-level course work; and to help them discover the academic, social and personal balance that leads to graduation. The following programs are a sampling of FYE initiatives designed to promote these Buckeye success stories.

Buckeyes Beyond Ohio

■ fye.osu.edu/buckeyesbeyondohio.html

Buckeyes Beyond Ohio events are a series of programs for first-year students from out-of-state who are new to Buckeye Country. These events are designed to welcome new Buckeyes to Ohio and help them connect with both new and returning out-of-state students.

Buckeye Book Community

■ fye.osu.edu/bbc.html

The Buckeye Book Community (BBC) is quite possibly the largest book club in the nation. First-year students receive a reading selection during orientation and are asked to complete the reading during the summer. Students then return to campus prepared to discuss and analyze what they have read. In the program’s culminating experience, the featured author visits campus. In recent years students have met celebrated writers including Rebecca Skloot (*The Immortal Life of Henrietta Lacks*), Warren St. John (*Outcasts United*) and Tracy Kidder (*Mountains Beyond Mountains*). The BBC introduces students to academic life at Ohio State, connects the first-year class through a shared experience and introduces the expectation that college students cultivate a life of learning both in and outside the classroom.

The President’s Convocation

■ fye.osu.edu/convocation.html

Convocation is held in historic St. John Arena on the Monday before the start of autumn semester classes and is the official academic welcome for new freshmen. Convocation, along with commencement, serves as a “bookend” to the Ohio State experience. At convocation, students are officially “inducted” as new Buckeyes; at commencement, the class reconvenes to consider its accomplishments.

At Convocation, the newest Buckeyes are welcomed by the campus and Columbus communities. Several speakers offer words of advice and inspiration at the symbolic ceremony, including the university president, the Undergraduate Student

Government president and surprise guests. Buckeye spirit is led by The Best Damn Band in the Land (TBDBITL), The Ohio State University Marching Band. Students are introduced to Ohio State history and traditions; learn “Carmen Ohio,” Ohio State’s alma mater; and receive symbols of their membership in the Ohio State family.

After the academic ceremony, students are led by the marching band out of St. John Arena and to the Columbus Welcome Event.

Transfer Student Meet and Greet (and Eat!)

■ fye.osu.edu/tsab.html

Held at the start of each semester, the Meet and Greet informs transfer students about campus resources and provides a networking opportunity to meet other incoming students. New students can sign up for upcoming campus events specifically for transfer and campus-change students and meet Transfer Student Activities Board (TSAB) and First Year Experience staff members.

First Year Success Series

■ fye.osu.edu/successseries.html

New students have the opportunity to attend special lectures, seminars and events that complement their survey courses. These programs, available to first-year students throughout their first year, address common issues students face in the transition to university life at Ohio State: separation from family and distance from home, new temptations and fewer rules, rising expenses, new and unfamiliar surroundings, the rigor of the curriculum of a major research university, the diversity of the university population, and a large number of choices and decisions.

The topics for the Success Series revolve around six themes: Academic Engagement and Career Exploration, Buckeye Book Community, Diversity and Global Awareness, Health and Wellness, Finances, and Leadership and Civic Engagement. Experts from across campus facilitate most of the events.

Success Series themes

Academic Engagement and Career Exploration

The wide variety of sessions offered in this category help students become successful both inside and outside of the classroom. Topics include improving study and note taking skills, tackling procrastination, exploring career options, and learning about math resources or study abroad options.

Buckeye Book Community (autumn semester)

These sessions are events related to the Buckeye Book Community selection for the given year. Sessions address topics introduced in the book and include the author’s visit to campus and presentation, lectures from faculty experts, small group discussions, service projects and other hands-on activities related to the book.

Diversity and Global Awareness

This theme focuses on the diverse nature of Ohio State and explores current social issues facing society and what it means to study, work and live with people from differing backgrounds. Sessions focus on how diversity and global awareness affect individuals and groups in society, and topics include issues of race, ethnicity, religion, sexual orientation, class and gender.

Health and Wellness

Through these events, students will learn how to weave wellness activities and practices into their daily routines. Topics include anxiety and mental health resources, stress management, alcohol and drug awareness, sexual activity, and healthy food choices.

Finances

Students today are often faced with growing amounts of debt and increased responsibility for personal financial management. In these sessions, students will explore the consequences of and alternatives to buying on credit and will learn strategies to ensure a secure financial future.

Leadership and Civic Engagement

These sessions encourage students to become involved on campus and provide opportunities to develop leadership skills and learn about the community surrounding campus. Speakers who are noted professionals and leaders in the local, state or national community will come to campus to share their personal experiences and successes in leadership.

FYE communications

askFYE

Want to know how to declare a major? A minor? Want to know where to work out? Where a certain building is located? Where to get a haircut or where to take special visitors for dinner when they come to town? AskFYE!

A cyberspace source for answers to nearly every question about all things Ohio State, askFYE is an invaluable resource for all members of the Ohio State community. Any new student seeking an answer to a question about the university or its programs, services, resources or opportunities is encouraged to send an email to askfye@osu.edu. The experts at askFYE will provide a speedy reply, either answering the question or pointing the student to the appropriate person or campus resource.

First Things First

■ u.osu.edu/uofye

FYE staff and upper-class students keep new Buckeyes informed throughout the first year with the blog, *First Things First*. Blog posts include topics about campus resources, events, and student stories and recommendations. We'll send tweets when new blog posts are up, so follow us @OhioStateFYE.

Select FYE student cohorts

First Year Connections Team

■ fye.osu.edu/fyct.html

An extension of the FYE staff, the First Year Connections Team is a group of students enthusiastic about Ohio State and the continued success of first-year students.

Transfer Student Activities Board

■ fye.osu.edu/tsab.html

The Transfer Student Activities Board (TSAB) members plan, coordinate, communicate and facilitate current FYE programs that serve transfer and campus-change students. TSAB members, themselves former transfer students, contribute to efforts across the university to serve the Ohio State transfer student population.

TSAB invites new transfer students to lunches throughout the year where they can meet and interact with new and current Ohio State students. TSAB also plans a number of social outings each semester.

Younk Success Center

■ younkinsuccess.osu.edu

The Younk Success Center is a collaboration of campus units dedicated to facilitating and achieving success for all Ohio State students and faculty by providing assistance in a variety of areas such as learning and teaching assistance, career counseling, and personal and social counseling. The center houses the following:

- Career Connection, careerconnection.osu.edu
- Counseling and Consultation Service, ccs.osu.edu
- Dennis Learning Center, dennislearningcenter.osu.edu
- Student-Athlete Support Services Office, sasso.osu.edu
- Success Support Resources and Services, younkinsuccess.osu.edu
- University Center for the Advancement of Teaching, ucat.osu.edu

Career Connection

■ careerconnection.osu.edu

Career Connection serves the career development needs of Ohio State students by providing high-quality and diversity-sensitive services through counseling, consultation and lasting partnerships to facilitate learning and advance well-being, purpose, identity development and citizenship. Its vision is to empower students to make lifelong, responsible and meaningful choices in a global and dynamic world.

Professional career counselors/consultants help students achieve successful outcomes by doing the following:

- Connecting students' interests, values, skills and personality with the world of work
- Aiding development of students' interests by exploring various careers and majors

- Helping students to test their ideas with internships, informational interviews, volunteering and extracurricular activities
- Providing customized attention to resumes, cover letters and interviewing skills
- Listening to and helping with personal concerns that relate to career decisions
- Helping students make decisions by learning to conduct a job search or plan for graduate or professional school
- Informing students about the university's employment assistance

All undergraduate, graduate, professional and continuing education students currently enrolled are eligible for services. Limited services are provided to individuals after graduation and during the summer.

Career Connection is located on the second floor of the Younkin Success Center behind the glassed-in meeting room. Walk-in hours and appointments are available for students. Call 614-688-3898 for more information.

Student-Athlete Support Services

■ ohiostatebuckeyes.com/sasso

Student-Athlete Support Services Office (SASSO) provides student-athletes with programs for academic and personal development. Student-athletes are encouraged to become independent learners and to participate in co-curricular experiences (like research and study abroad) that will enhance their academic experiences. Programming is also offered that helps them develop leadership skills and prepare for life after Ohio State.

Academic support

- **Athletic Academic Counseling Services:** Assists with issues of eligibility and academic procedures in compliance with NCAA, Big 10 and Ohio State academic standards.
- **College Academic Advising Services:** SASSO refers student-athletes to college and departmental advisors for academic information and planning related to a student's college and major.
- **The Study Table and Tutoring Programs:** Provide students with a quiet place for studying and computer lab use as well as access to private tutoring for many academic subjects.
- **The Success Team:** Provides intensive academic skill building by learning specialists, mentors and tutors.
- **The Degree Completion Program:** Designed for student-athletes who return to the university to complete their degrees.
- **Priority scheduling:** Allows student-athletes to schedule classes that accommodate their practice and training times.
- **Strategies for Academic Success Seminars:** Highlight areas for academic development. Topics include academic misconduct, graduate/professional school admissions and general study skills.

Personal and career development

- **Kinesiology courses:** Offered through the Department of Kinesiology, these courses provide insight into issues affecting the personal development of student-athletes and prepare students for the transition out of sports and into the workforce.
- **Student-Athlete Advisory Board (SAAB):** A student-athlete organization that provides team representation to the Athletic Department and input on department policy and programming.
- **Peer educators:** Student-athletes in this group are trained as peer educators on topics of alcohol education, financial wellness, sexual health and sexual violence prevention.
- **Buckeyes Study Abroad Scholarship:** Student-athletes can apply for study abroad scholarships through the Department of Athletics. These scholarships cover the cost for an Ohio State study abroad program.

Community service

Community service opportunities are available to student-athletes throughout the community as well as in schools. Focus is on student-athletes as role models and giving back to the community that supports them.

Success Support Resources and Services

Younkin Success Support Resources and Services supports tutoring and financial resources. Study and computing space is available at the Younkin Success Center. The atrium and Media Resources Library provide areas and study tables for individual and group work. Room 250 becomes a public computing lab Monday through Thursday evenings, Friday afternoons, and all day Sunday. Wireless and plug-in Internet access is provided in the atrium and third-floor public seating areas. Several workstations are available during building hours. The Younkin Success Center remains open for 24-hour study needs during finals week.

The Media Resources Library houses print and electronic resources for students and faculty. Materials include information on careers, teaching, academic advising, self-help, learning and technology. Items are cataloged in OSCAR and can be checked out with a BuckID.

Dennis Learning Center

■ dennislearningcenter.osu.edu

The Dennis Learning Center (DLC), located in the Younkin Success Center, offers a variety of free learning support services for all Ohio State students. These services include credit-bearing electives, individualized services and group workshops.

The DLC offers a three-credit course in college success strategies (Educational Studies, Education Psychology 1259: Individual Learning and Motivation). This course not only helps students improve their study skills—those strategies and approaches necessary for obtaining, retaining, recalling and communicating information in academic settings—but also gives them the tools to be successful in all aspects of college life. The techniques

and approaches covered in the course are applied to overcoming procrastination, building self-confidence, taking responsibility for one's outcomes, learning from lecture, learning from text, preparing for exams, preparing papers and speeches, and managing life in college. A recent study found that students who complete the course achieve significant gains in their GPAs as a result of their experiences with the course.

The DLC offers two courses addressing the effective use of technology in college. A two-credit introductory level course (Educational Studies, Education Psychology 1159: Online Learning Strategies and Skills) teaches strategic uses of Web-based tools and resources while encouraging students to explore methods to increase their engagement with course work. A three-credit course (Educational Studies, Education Psychology 1359: Technology-Enhanced Learning Strategies) helps students achieve academic success by using reason and logic to develop compelling arguments in digital forms.

The DLC also offers academic counseling sessions and a variety of workshops. DLC learning specialists are available by appointment to provide free one-on-one study skills support for students in all majors. Learning specialists also facilitate study skills workshops at various locations across campus on topics including time management, note taking and test preparation. Schedule an appointment or request a workshop at dennislearningcenter.osu.edu.

The DLC is open from 8 a.m. to 7 p.m. Monday through Friday and is located in 250 Younkin Success Center. For further information, call 614-688-4011 or email dlc@osu.edu.

Mathematics and Statistics Learning Center

■ mslc.osu.edu

The Mathematics and Statistics Learning Center (MSLC) provides free academic support to students in some undergraduate mathematics and statistics courses. Each of these courses has a specific tutor room that students can visit for learning support. Tutoring is free for enrolled students, and no appointment is needed. The MSLC also provides online resources, content workshops and exam review materials for select math courses.

In the MSLC Resource Center, students can borrow materials such as calculators, textbooks and multimedia software. The MSLC administrative offices are located in Cockins Hall 148 with tutoring locations in Cockins Hall, the Math Building and the 18th Avenue Library.

Hours of operation are Monday through Friday from 9 a.m. to 5 p.m. Tutoring hours and a list of private tutors are listed on the website.

The Writing Center

■ cstw.osu.edu

The Center for the Study and Teaching of Writing provides assistance, generally by appointment, to any member of Ohio State desiring personal help with specific writing projects, such as reports, articles, term papers and resumes. The tutors also assist with general writing needs, such as taking essay examinations, improving style or getting started with a paper. This is not an editing service, but the tutors provide writing assistance to writers no matter where they are in the writing process.

Two kinds of appointments are available: face-to-face or online via Carmen. Appointments can be made by visiting cstw.osu.edu, calling 614-688-4291 or stopping by 485 Mendenhall Lab. Walk-in help is also available in the afternoons and evenings at the Thompson Library.

Libraries

■ library.osu.edu

The Ohio State University Libraries is a system of libraries on the Columbus campus and the university's regional campuses in Lima, Mansfield, Marion, Newark and Wooster. Ohio State students have access to a wide range of electronic resources online, distinctive resources from the system's special collections and a general collection of more than six million items.

Individual department libraries provide access to materials, indexes, abstracts and bibliographies designed to meet the needs of the disciplines they serve. Librarians who are subject specialists in specific areas of study can help students find the answers they need.

Special collections collect, preserve and promote the use of rare books, primary research materials and manuscripts. These resources are available for use by Ohio State students and faculty.

The Libraries' website, library.osu.edu, provides access to library services, databases, online reference sources and information to help students with research. Ohio State Libraries is a member of OhioLINK, a collection of 88 Ohio college and university libraries and the State Library of Ohio. This network provides Ohio students, faculty and researchers access to 48 million books, millions of electronic articles, 55,000 ebooks, and thousands of images, videos and sounds.

A complete list of libraries and special collections can be found at the end of this guide.

Study Abroad

■ oia.osu.edu

Global opportunities abound at Ohio State and include study abroad, international research and field work, international service learning programs, service programs during breaks between terms (Buck-I-Serv), internships, and exchange programs. More than 2,000 Ohio State students study abroad

each year on programs developed and managed by Ohio State's Office of International Affairs. Undergraduate students of all majors and ranks are encouraged to explore more than 100 study abroad opportunities in over 40 countries.

By studying abroad, students earn academic credit, gain global awareness and better prepare themselves for future careers. Study abroad can help students satisfy language, major, minor and/or General Education requirements for a degree. Faculty participation and International Affairs oversight ensure academic quality and administrative support while studying overseas. Programs range in length from 10 days to 12 weeks to full academic years.

A study abroad experience is a strong investment in a student's future. For this reason, students are encouraged to come to Ohio State with their passport in hand so they are ready to take advantage of the many international opportunities available to them.

To learn more about study abroad opportunities, students can attend one of the Getting Started information sessions held at various times throughout the year, explore types of study abroad programs available at oia.osu.edu or send an email to abroad@oia.osu.edu.

Undergraduate Research

■ undergraduateresearch.osu.edu

Why research?

Research contributes to an expansion of knowledge through inquiry, investigation or experimentation aimed at the discovery of facts, theories or laws. It spans inquiry within all fields—from isolating a specific gene to investigating the workings of a camel's third eyelid, from identifying themes of masculinity in dance choreography to determining if older computer users are put off by fancy graphics.

Undergraduate research requires an educational collaboration between students and faculty members. Research experiences may be initiated by students who seek out faculty supervision for their projects or by faculty members who involve undergraduate students in their research teams.

Researchers at Ohio State are leaders in a variety of fields that touch our daily lives and shape our future. Undergraduates at Ohio State are a part of Ohio State's exciting community of discovery, creativity and innovation.

Educational benefits:

- Working closely with a faculty mentor
- Learning about issues, methods and leaders in students' chosen fields
- Applying concepts learned in course work to real life situations
- Sharpening problem-solving skills

Professional benefits:

- Exploring and preparing for future careers
- Developing marketable skills

- Enhancing professional communication skills
- Collaborating with others and working effectively as part of a team

Personal benefits:

- Growing as a critical, analytical and independent thinker
- Meeting challenges and demonstrating the ability to complete a project
- Discovering personal interests
- Developing internal standards of excellence

How to get started

Students should make a list of interests, even if they are not related to their majors. To spark ideas, students can search websites and visit the resources, forums and student stories on undergraduateresearch.osu.edu.

If research interests overlap with a student's major, he/she should talk with a departmental advisor about opportunities that may be available in the student's major department.

Students should take advantage of office hours and talk with professors who teach topics that interest them. Visit the professors' Web pages and read some of their published work. If they are not able to become research partners, students may ask for recommendations of labs or other faculty that might provide them with the opportunity to become involved.

Students may also look for posted research opportunities, which many colleges and departments post on their websites.

Students may also attend department, college and university research forums to get a sense of the scope of research that is happening at Ohio State and talk to other students about how they became involved in their projects.

The Undergraduate Research Office

The Undergraduate Research Office (URO) promotes undergraduate research at Ohio State by helping students get involved in research and facilitating opportunities to fund, publish and/or present their work.

The URO website, undergraduateresearch.osu.edu, includes tips on getting started, a list of research opportunities at Ohio State along with offered programs at other institutions, conferences and forums to present research, a list of funding options, and other research resources.

The URO offers many forms of assistance and coordinates programs to give students the information and support they need to get involved in research. The URO provides individual advising, monthly information sessions, and special events such as student and faculty panels. The URO notifies students of announcements, exciting opportunities and upcoming deadlines through a weekly email newsletter. These newsletters occasionally include advertisements for open research positions directly requested by faculty.

The URO coordinates the Peer Research Contact program, where students wishing to gain a student perspective on research can connect with and ask questions to an experienced undergraduate researcher in their field. The URO also organizes

two annual undergraduate research forums: The Fall Undergraduate Research Forum and the Denman Undergraduate Research Forum.

For more information, visit the website or contact the URO at uro@osu.edu or 614-292-8307.

Freshman Seminar Program

■ freshmanseminars.osu.edu

The Freshman Seminar Program provides unique experiences for first-year students to interact with and learn directly from Ohio State faculty. These faculty-led seminars are open only to first-year students. With a maximum number of 18 students and small discussion formats, these seminars allow faculty to share their scholarly enthusiasm with students while introducing them to topical and cutting-edge research. Freshman Seminars offer great opportunities for students to explore academic options and develop interests outside of their majors.

Honors and Scholars

■ honors-scholars.osu.edu

Housed in the historic Kuhn Honors & Scholars House, the University Honors & Scholars Center serves high-ability, motivated undergraduate students and offers opportunities for involvement through events, activities and organizations.

The Undergraduate Fellowship Office advises and assists all qualified undergraduates, regardless of Honors and Scholars affiliation, interested in applying for national scholarships and fellowships. Learn more at fellowships.osu.edu.

Who is an Honors student?

The University Honors Program offers students an enriched academic experience through a variety of opportunities including Honors courses, undergraduate research, Honors housing, co-curricular activities, priority class scheduling and a comprehensive advising network.

Honors students are required to follow a rigorous curriculum, take a variety of Honors courses and meet a minimum GPA in order to maintain Honors status. Specific expectations and requirements vary depending on the student's individual college and major. Students should meet regularly with their academic advisors to verify they are meeting all requirements.

Many students apply and are admitted to the Honors Program at the same time they apply for admission to the university. However, transfer students and continuing students can apply for Honors affiliation after one semester through their college of enrollment. If interested, students should contact their college honors director. Learn more at honors-scholars.osu.edu/honors/academics/college-honors.

Honors students can apply to join the Honors Collegium in the second semester of their first year. Go to honors-scholars.osu.edu/honors/collegium to learn more.

Who is a Scholars student?

The Ohio State Scholars Program offers incoming students the chance to meet and live with other students who share similar interests. Students in any of the 17 Scholars programs are encouraged to connect with the Honors & Scholars Center in addition to their individual program, as the center provides a variety of resources and opportunities ranging from research to study abroad.

University Career Services

■ careers.osu.edu

Career services offices are committed to providing high-quality services to help all Ohio State students succeed in reaching their career goals.

Career services' on-campus offices help students link their education to the real world so they can build a strong foundation for their future. Through self-assessment, career and major exploration, career and graduate school planning, job search preparation, and assistance with their search for all kinds of jobs (internships, co-ops, summer, part time and career opportunities), students can get the help they need at each stage in their education. Students may receive assistance from a career services expert in their chosen field.

The career services offices are sensitive to the needs of students from diverse populations. Staff in the career offices are committed to the success of all students and can also assist should any career concerns be related to one's specific background.

The Buckeye Careers program offers a virtual forum and online resources for all Ohio State students. Buckeye Careers can help students find internships via the Buckeye Careers Network, a university-wide online resource that connects students with employees for jobs, internships, co-ops and career opportunities. The program also offers OnPACE, a series of career development modules and resources that can help students identify and explore interests and different academic options, search for employment and get started in the workplace.

There are many career services offices on the Columbus and regional campuses. Students can start building future careers by visiting their college career services office or by visiting careers.osu.edu.

A complete list of career services offices can be found in the directory at the end of this guide.

Disability Services

■ ods.osu.edu

Disability Services offers a variety of services and accommodations for students with disabilities including hearing, visual or mobility disabilities; Attention Deficit Hyperactivity Disorders (ADD/ADHD); and mental health, medical or learning disabilities. Academic accommodations and services include, but are not limited to, exam accommodations (e.g., extended time on tests

and quizzes, a reader/scribe, assistive technology, alternative format); disability counseling and advocacy; priority scheduling; alternative media (e.g., scanned text, enlarged print, Braille); sign language interpreters and/or transcribing services; training in accessing services and advocacy; and referral to other campus support services.

Disability Services provides reasonable accommodations, auxiliary aids and support services that are individualized and based on disability documentation, functional limitations and a collaborative assessment of needs. Because Disability Services is the designated campus office to determine appropriate accommodations and auxiliary aids for students with disabilities, documentation of the disability for determining eligibility should be submitted as early as possible.

For additional information regarding academic accommodations and services, contact Disability Services at 614-292-3307 (V/T) or 614-429-1334 (VRS), or stop by 150 Pomerene Hall.

Diversity and Inclusion

■ odi.osu.edu

The Ohio State University recognizes that diversity enriches the educational experience. A diverse learning environment encourages critical thinking and prepares students to be successful in an increasingly complex society. The Office of Diversity and Inclusion promotes the retention and success of students who enhance the diversity of the intellectual community at Ohio State.

The ACCESS Collaborative Program (Single-Parent Student Services)

■ odi.osu.edu/centers/access-collaborative

The ACCESS Collaborative Program works to increase retention and graduation rates of low-income single parent students. The program coordinates university and community support services to meet parents' needs as students and as heads of household. Students receive academic support through retention counseling and tutoring and workshops addressing child development and nutrition, financial literacy, life skills, stress management and career development.

Frank W. Hale Jr. Black Cultural Center

■ odi.osu.edu/centers/hale-black-cultural-center

The Frank W. Hale Jr. Black Cultural Center (Hale Center) has become one of the finest black cultural centers in the country, celebrating the contributions of African Americans in the world of arts, letters and science since its establishment in 1989. The Hale Center provides cultural, social and educational programs and events for the entire university and Columbus community and distinguishes itself from other centers with its large and outstanding art collection, two computer labs and classrooms spaces.

Todd A. Bell National Resource Center on the African American Male

■ odi.osu.edu/centers/bell-national-resource-center

Todd Anthony Bell National Resource Center on the African American Male (BRC) is dedicated to addressing the broad range of critical issues facing black men. Since its inception in 2004, the center has prioritized the production of research studies that inform social policy and theory on African American males and developed research-based programs, models and initiatives that can be replicated at other institutions. A thriving initiative, the BRC has created a sense of community and connectedness among African American men at Ohio State to ensure their success in college and beyond.

Latino and Latin American Space for Enrichment and Research (LASER)

■ laser.osu.edu

The Latino and Latin American Space for Enrichment and Research (LASER) mentors students from high school through undergraduate and graduate education. The program also supports student research and recognizes significant achievement of academic milestones such as completion of a significant research project, successful completion of a mentoring program, and innovation in the areas of scholarship and creativity.

Latino Leadership Development Institute

The Latino Leadership Development Institute (LLDI), co-hosted by the Office of Diversity and Inclusion and Alpha Psi Lambda Co-ed Latino Interest Fraternity, aims to enhance the educational experience of first-year Latino students by providing supplementary educational, social and cultural activities that develop students' leadership abilities.

Topics covered during monthly LLDI meetings include getting involved on campus, networking skills, communication and resume writing, and do's and don'ts of social networking. Students are also introduced to resources on and off campus and can meet individuals from a variety of career paths.

LLDI seeks to establish a sense of community among first-year Latino students and enable their success at the university and within the community. Ultimately, students involved with the program put new skills and knowledge to use throughout the program and execute a capstone project towards the end of the program.

LLDI is for first-year Latino students who are selected through the application process of the program. Applications are available early fall semester. Interested students should contact Maria Sanchez at sanchez.789@osu.edu.

Leadership Initiatives for Women of Color

■ odi.osu.edu/centers/leadership-initiatives-for-women-of-color

Leadership Initiatives for Women of Color (LIWOC) offers students a variety of leadership development programs, presentations and community outreach efforts that help create a celebrative community supportive of women of color at Ohio

State. The P.E.A.C.E. Corps offers undergraduates leadership development and peer mentoring experiences as well as opportunities to engage in community enrichment through projects like Mission STEM-Possible, a STEM club for middle school girls. A three-day retreat in the fall strengthens the interpersonal and community-building skills of women of color at Ohio State.

The Ohio Louis Stokes Alliances for Minority Participation (LSAMP)

■ odi.osu.edu/centers/ohio-lsamp-alliance

Seven four-year institutions and four community colleges in Ohio make up the Ohio LSAMP Alliance, which increases underrepresented minority student recruitment, retention and persistence and student success in science, technology, engineering and mathematics (STEM) degrees.

Each partner institution offers programming such as early arrival programs for first-year underrepresented students, faculty-mentored undergraduate research, academic and retention advisement, peer mentoring, supplemental instruction, and stipends.

If you are interested in the LSAMP program, contact Kari L. Jordan, 614-688-1955 or jordan.722@osu.edu.

Student Advocacy Center

■ advocacy.osu.edu

The Student Advocacy Center assists students when they find it difficult to navigate a particular situation. The center's staff answers questions, directs students to the appropriate departments and people, familiarizes students with university policies and procedures, and provides guidance to help students solve problems and make choices.

The Student Advocacy Center helps students find their place at the university. The center's goal is to help reduce barriers so students can focus on classes and make important decisions about their futures.

Call the Student Advocacy Center at 614-292-1111 or visit the center at 1120 Lincoln Tower. Office hours are 8 a.m. to 5 p.m. weekdays during the academic year.

ROTC

Ohio State hosts Reserve Officers' Training Corps (ROTC). Each service (Army, Navy-Marine Corps and Air Force) offers an individual program. ROTC trains and produces leaders for all facets of life, not solely for the military. ROTC uses military education as a vehicle for leadership and management development. Talented young women and men are the engine that powers this vehicle.

ROTC programs produce civilian leaders and commissioned military officers. The military is a diverse collection of people and, like the nation it serves, requires educated women and men from every academic discipline and specialty to make it work. Consequently, the civilian and military career

opportunities available to Ohio State students through participation in the ROTC programs are unlimited.

Each department offers elective courses, so students can explore their capabilities to the fullest extent. No matter which department students choose, they will be receiving some of the very best leadership training in the world.

Ohio State students can take advantage of the following unique opportunities offered by the ROTC units:

- Frequent personal, academic and career counseling
- Active mentoring program to help new students with transition to college environment
- Obligation-free introduction with low time requirement
- Guaranteed employment upon graduation with competitive salary and exciting career opportunities
- Leadership, challenge, responsibility and self-improvement—four of the best reasons to enroll in a military science, naval science or aerospace studies class

Air Force ROTC

■ afrotc.osu.edu

The Air Force Reserve Officer Training Corps (AFROTC) program gives full-time college students the opportunity to earn an Air Force commission while completing their degree. The AFROTC program is a series of electives that provide military training and develop leadership skills needed to become an effective Air Force officer. While the program is typically completed over a four-year period, it is possible to complete the program in as little as three years. In addition to academic and leadership laboratory participation during the academic year, cadets must complete a four-to-six-week field training encampment, normally the summer after their sophomore year.

Scholarships

High school students compete for four-year scholarships if they plan to begin AFROTC their freshman year in college. College freshmen and sophomores who do not win a high school scholarship or who missed the opportunity to compete for one may seek two- or three-year In-College Scholarships (ICSP) once enrolled in AFROTC. ICSP competition is based on the whole-person concept: academic performance, physical fitness, good standing with the AFROTC program and officer potential. The ICSP selection process is held during January and June. All AFROTC scholarships pay full or partial tuition, most fees, and a textbook allowance. Once an AFROTC scholarship is activated, cadets also receive a tax-free stipend of up to \$500 per month. The Academic/Physical Fitness Incentive program (unique to Ohio State) offers financial awards each semester for cadets who excel in classes or on the Air Force Physical Fitness Assessment. Committed to academic success, AFROTC operates three computer labs for cadets, provides study tables and hires tutors—all at no cost to cadets.

Career selection

Prior to graduation, students select areas of interest to pursue upon graduation and commissioning. The Air Force offers practically every career field, including engineering and logistics,

personnel and information management, acquisition/contracting and communications, accounting and finance, pilot and navigator, and many others.

Service commitment

Most scholarship students incur a service obligation at the start of their sophomore year. Non-scholarship students incur a service obligation upon successful completion of field training, normally at the start of the junior year. Active duty service commitments are four years upon entering active duty. Service commitments for pilots and navigators are longer.

Extracurricular activities

There are many extracurricular activities you can choose from, such as aircraft orientation flights, flag-raising at home football and basketball games (with free admission to the game for participating cadets), Air Force base visits, air shows, drill team/color guard, intramural sports teams and more. Summer programs may be available on a volunteer basis including flying Air Force gliders, free-fall parachuting, combat survival training and shadowing an AF officer either in the United States or overseas. Students may also voluntarily participate in AFROTC-related student organizations, including our nationally recognized Arnold Air Society.

Eligibility requirements

Basic AFROTC membership requirements:

- Full-time student status
- U.S. citizenship (for scholarship, enlistment and commissioning)
- Pass the Air Force Officer Qualifying Test (AFOQT)
- Meet academic, moral and physical standards

Registration

Freshman students interested in Air Force ROTC may enroll in the appropriate course, depending on the semester they want to start:

- Autumn semester: Air Science 1001
- Spring semester: Air Science 1002

Sophomores and juniors should contact the Air Science Department to ensure they start with the correct Air Science course and, if necessary, to get a prerequisite waiver. All courses are taught by professional Air Force officers.

Minor in Air Science

Cadets who complete all 2000–4000 series Air Science courses may be eligible to receive a Minor in Air Science; but must do the following:

- Maintain an overall 2.0 GPA in minor courses
- Attain a grade of C- or higher in all minor courses

Cadets who fail an Air Science course may be removed from the program and, as a result, become ineligible for the Air Science minor. Students should declare their minor prior to accumulating 60 total credit hours.

AFROTC at Ohio State is a challenging yet rewarding leadership development experience. If you would like to become an Air Force officer or would like more information, contact the AFROTC unit at 614-292-5441, visit 353 Converse Hall or check out afrotc.osu.edu.

Naval ROTC

■ nrotc.osu.edu

The Navy-Marine Corps ROTC Program is designed to professionally qualify and commission college graduates as ensigns in the United States Navy or as second lieutenants in the United States Marine Corps. NROTC members lead essentially the same campus life as other undergraduates. Enrolled students take specific professional courses each semester that are geared to their normal advancement in the university. The curriculum encompasses Naval subjects from seamanship to fleet operations. The courses are fully accredited and taught by professional Naval officers.

Scholarship program

Two-, three- and four-year scholarship programs reward graduates with a commission in the regular Navy or Marine Corps. Students participate in summer travel to countries in the Western Pacific and Mediterranean as well as selected areas in the United States. Technical majors are encouraged for all students in order to better qualify them for the challenges and opportunities presented in the Navy and Marine Corps; however, all majors are welcomed. There are additional programs for students majoring in foreign language or studies in selected regions. Reference the Academic Tier Groups and LREC Scholarships sections at nrotc.osu.edu for more information. NROTC scholarships are also available to students interested in pursuing a bachelor of science in nursing.

Financial assistance

The Scholarship Program pays for tuition and required fees and pays a fixed amount for textbooks. It also provides a monthly tax-free payment of \$250 for freshmen, \$300 for sophomores, \$350 for juniors, and \$400 for seniors. The College Program (non-scholarship) provides the same monthly tax-free payment in the junior and senior years. Three-year scholarships can be earned by students in the program who achieve a competitive GPA and complete Math 1151 in their first year. Each semester, the Naval ROTC program offers monetary incentives for students who excel academically and physically.

Service selection

Prior to graduation, a student selects an area of interest to pursue upon graduation. For Navy-option students, the basic opportunities include surface nuclear power, subsurface nuclear power, conventional surface warfare and aviation warfare. For Marine-option students, opportunities include ground and aviation warfare. Nurse-option students are commissioned as officers in the Navy Nurse Corps.

Service obligation

College Program: three years active duty.

Scholarship: five to 10 years active duty, depending on the area of interest chosen during service selection.

No military or financial obligation is incurred until commencing the second year of academic study for scholarship students and the third year for College Program students.

Extracurricular activities

A wide variety of optional activities are offered during the year, including a band, rifle and pistol team; drill team; professional specialty clubs; honoraria yearbook; intramurals; picnics and social dances; and special indoctrination trips consisting of visits to Navy and Marine Corps bases.

Eligibility requirements

- Maximum age of 27 on June 30 of the year of graduation
- Academically, morally, mentally and physically qualified
- U.S. citizen

Registration

Scholarship and non-scholarship students may enroll in the NROTC program by scheduling the following courses:

- Autumn semester: Naval Science 1110
- Spring semester: Naval Science 1210

For more information about the NROTC program visit the Naval ROTC unit in 100 Converse Hall or call 614-292-6015.

Army ROTC

■ arotc.osu.edu

Army ROTC is an elective course that gives students hands-on training and development in leadership, managerial skills, self-confidence and physical fitness.

While in ROTC, students lead the life of a normal college student but enjoy the added bonus of adventure training in rappelling, water survival, basic rifle marksmanship, rope bridges and more. Upon completion of the course and graduation from Ohio State, cadets in Army ROTC earn a commission as second lieutenant in the active Army, National Guard or Army Reserve. Best of all, there is no obligation to start.

The basic course

Cadets in the basic course (freshman and sophomore years) can take Army ROTC classes with absolutely no military obligation. Introductory courses teach the fundamentals of leadership along with the organization of the U.S. military and basic soldiering skills. Plus, students are also eligible for the many exciting extracurricular and social activities within Ohio State's Army ROTC program.

The advanced course

If students decide to pursue a commission in the Army, they enroll in the advanced course (junior and senior years) and begin to collect the \$450–500 tax-free monthly stipend given to all advance course cadets.

Much of the involvement during the junior year includes leadership training in small-unit tactics in preparation for the Leaders Development Accessions Course (LDAC), a four-week course in leadership held at Fort Lewis, Washington. During LDAC, students undergo realistic training and evaluation on Army weapons systems and tactics and cultivate leadership skills. Students apply the skills they learned at LDAC during their senior year on campus. They are then assigned the task of planning, executing and assessing training for all the cadets of the "Buckeye Battalion." This final phase of training has proven to be a highly successful tool in the development of young officers.

What to expect

Basic classes are elective courses held once or twice a week. A leadership laboratory is held Thursday mornings. This lab is the hands-on part of the program, in which leadership techniques taught in class are put to the test. Physical fitness training is held from 6:30 to 7:30 a.m. every Monday, Wednesday and Friday. While optional for most freshmen and sophomores, fitness training is mandatory for juniors and seniors. Books, uniforms and equipment are provided at no cost.

Tuition assistance

Army ROTC has four-, three-, and two-year scholarships at Ohio State. Scholarships provide tuition and required fees, \$1,200 per year for books, and a \$300–500 per month stipend for every month students are in an Army ROTC class. Also, contracted cadets who are successful in academics (3.2 GPA or higher per semester) are offered academic incentive awards ranging from \$100 to \$500.

Special training

Qualified students who desire can participate in the U.S. Army Airborne School, the Air Assault School or shadow an active duty lieutenant in our cadet "shadow" program in an active Army unit.

Extracurricular activities

Activities include flag-raising detail during football games in Ohio Stadium or at basketball games, Ranger force and Ranger challenge teams, rifle team, Pershing rifles drill and ceremony team, a tour of the Gettysburg battlefield, and more.

How to get started

Giving Army ROTC a try is as easy as registering for any other course. Incoming freshmen should simply add the class Military Science 1001 or 1002 when they schedule during orientation. Sophomores or juniors should call 614-292-6075, stop by 253 Converse Hall for visit arotc.osu.edu for more information.

Military and Veterans Services

■ veterans.osu.edu

The Office of Military and Veterans Services is the university's single point of contact for all military and veterans services and concerns. The office strives to ensure the academic success of Ohio State's student-veterans. Any student utilizing VA education benefits must work with this office as part of their registration and enrollment.

Some of the office's responsibilities include:

- Enrollment certification for students participating in educational benefits provided by the U.S. Department of Veterans Affairs (i.e. the GI Bill)
- A focal point for all campus veteran information
- Fostering a positive campus and community atmosphere
- Assisting students in accessing other earned benefits and services provided by federal, state, local or private agencies

For more information, visit room 185 of the Student Academic Services Building, 281 W. Lane Avenue; call 614-247-VETS; or email milvets@osu.edu.

Mathematics Placement Guide

■ math.osu.edu/undergrad/advising/math-placement

Mathematics Skills Assessment

The math assessment determines students' beginning placement level in math and science courses at Ohio State. During the orientation academic advising session, advisors use the placement level to determine which mathematics course sequence students should begin during their first semester at Ohio State. To learn more about placement codes, consult the chart below or refer to the FAQs on page 15.

Guide to your math placement code

The chart below represents the general guidelines for math placement and exhibits the highest course in which students may enroll. Students should consult with their advisor at orientation to select the most appropriate course.

Math Course Code	Natural Sciences, Computer Sci., ENG, Pharm, Math, Pre-Med., SBS and ASC-BS	Business	Social Science, Humanities, ASC-BA Majors	Education and Human Ecology (most majors)	Agriculture
L-calculus	1151 or 1156	1151 or 1131	1116, 1150, 1151 or see college advisor	1151 or 1165 ^b	1131, 1150 or 1151
M-precalculus	1151 ^a or 1150	1130, 1131, ^a 1150 or 1151 ^a	1116 or 1150	1130, 1148 or 1150	1131 ^a or 1150
N-college algebra	1148	1130	1116, 1130 or 1148	1125, 1130 or 1148	1130 or 1148
R-intermediate algebra*	1075	1075	1116	1075 or 1125	1075
S-elementary algebra*	1050, 1060 ^c or 1075	1050, 1060 ^c or 1075	1050, 1060 ^c or 1075	1050, 1060 ^c or 1075	1050, 1060 ^c or 1075
T-elementary algebra*	1050	1050	1050	1050	1050
U-undetermined level	Must retake the math placement test on campus, preferably at orientation.				

^a By permission only. Columbus campus students need to see the math faculty member at orientation. Students who fail calculus autumn semester must revert back to their original placement the next time they take math (i.e. 1150 or 1130). Students who choose not to take calculus autumn semester can no longer move ahead and will need to start in 1150 or 1130.

^b For Middle Childhood math concentration students only.

^c Regional campus course.

* If a student places level R, S or T and has an ACT math score of at least 22 or an SAT math score of at least 520 that is less than two years old, then he has the equivalent of placement level N and is permitted to take any course on the N level.

Calculus sequence options

The department offers various sequences in calculus to meet the needs of most students, but in order to be successful, a student must be willing to study two to three hours of calculus each day.

Students can feel confident in signing up for the strongest class knowing that a change during the first few weeks is permitted on a space-available basis. However, a textbook change may be necessary. Students who are unsuccessful in 1161, 1181H or 4181H may invoke Freshmen Forgiveness by substituting a different course. Confer with an academic advisor or the Math Advising Office (MA250).

All courses listed here are taught in lecture/recitation format, except for Honors courses.

Calculus sequence descriptions

1131: Calculus for Business—survey of calculus of one and several variables; applications to business. Not open to students with credit for any math class numbered 1151 or higher.

1151 Calculus 1—study of limits, derivatives, max-min, definite integrals, Fundamental Theorem, substitution in integrals, applications. Not open to students with credit for any higher numbered math class.

1152 Calculus 2—study of integration techniques, sequences and series, convergence tests, Taylor series, and parametric and polar curves. Not open to students with credit for any higher numbered math class.

2153 Calculus 3—study of vectors, several variables, partial derivatives, chain rule, gradient, max-min, multiple integrals, line integrals and vector fields, divergence, curl, and integration theorems. Not open to students with credit for any higher numbered math class.

1172 Engineering Math A—study of integration techniques, sequences and series, Taylor series, vectors and parametric curves, several variables, partial derivatives, chain rule, and max-min. Not open to students in math, pre-actuarial science or actuarial science. Not open to students with credit for any higher numbered math class or for 1152.

2173 Engineering Math B—study of multiple integrals, line integrals, vector fields, second order constant coefficient ODEs. Not open to students with credit for any higher numbered math class or for 1152 or 2153.

1156 Calculus for the Biological Sciences—study of discrete models, limits and continuity, derivatives and applications, antiderivatives, integrals, Fundamental Theorem, team modeling projects. Not open to students with credit for 1151 or with credit for any higher numbered math class.

1157 Mathematical Modeling for the Biological Sciences—study of integration, topics in linear algebra, dynamical systems, vector fields and gradients. Includes a team modeling project. Not open to students with credit for 1152 or with credit for any higher numbered math class.

1161.01 Accelerated Calculus 1—intended for students having prior experience with calculus. Study of limits, derivatives, max-min, integrals, Fundamental Theorem, techniques of integration, and applications.

2162.01 Accelerated Calculus 2—study of vectors, parametric curves, partial derivatives, optimization, multiple integrals, line integrals, divergence, curl and integration theorems. Not open to students with credit for any higher numbered math class.

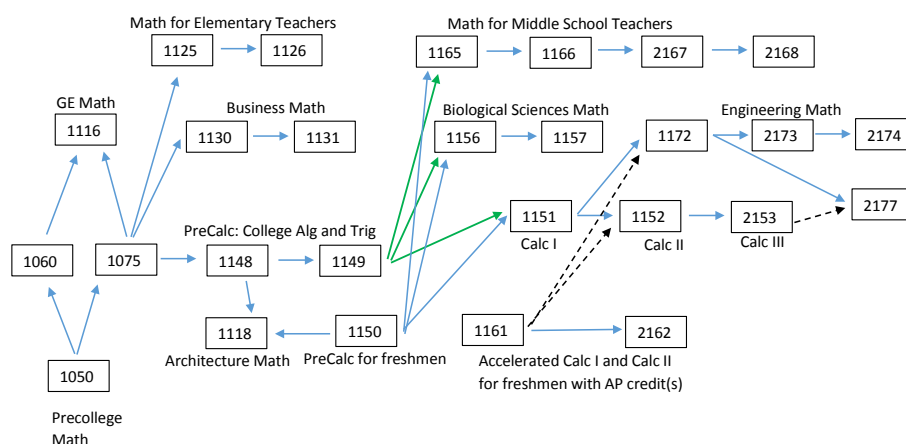
1161.02 Accelerated Calculus 1—open only to students in Freshman Engineering Honors. Study of limits, derivatives, max-min, integrals, Fundamental Theorem, techniques of integration, sequences and series, Taylor series, and applications.

2162.02 Accelerated Calculus 2—open only to students in Freshman Engineering Honors. Study of sequences and series, Taylor series, vectors, parametric curves, partial derivatives, optimization, multiple integrals, line integrals, divergence, curl and integration theorems.

1181H Honors Calculus 1—study of differential calculus of one variable, integral calculus, convergence of sequences and series, Taylor series with remainder estimates. Emphasis on abstract proofs. Not open to students with credit for any higher numbered math class.

2182H Honors Calculus 2—study of parametric curves, vectors, multivariable calculus treated in depth. Not open to students with credit for any higher numbered math class.

4181H-4182H Honors Analysis I and II—an enriched honors sequence introducing students to mathematical underpinnings of calculus. Requires permission of department.



AP credit

Students who receive a score of 3, 4 or 5 on the AB or BC Advanced Placement Math Test are awarded the following mathematics credit:

Score	Receive credit for	Recommended courses
AB 3	1151	1151 (1152 or 1172 allowed but not recommended)
AB 4	1151	1152 or 1172
AB 5	1151	1161.xx, 1152, 1172; or 1181H or 4181H with advisor approval
BC 3	1151, 1152	1152, 1172, 1161.xx; or 2153 (but not recommended), 1181H or 4181H with advisor approval
BC 4, 5	1151, 1152	2153; or 1181H, or 4181H with advisor approval, or 2162.02 with FEH advisor approval

We encourage students to attend a special orientation session, Calculus Placement and Honors Mathematics Options and Opportunities. During this session, students have an opportunity to discuss calculus options and mathematics Honors opportunities with a faculty member from the math department.

Students who receive Advanced Placement scores of AB 1 or AB 2 must schedule in accordance with their placement results. If they want an opportunity to move ahead, they must take proficiency tests (find more information at orientation, in this guide on page 16 and online at math.osu.edu/undergrad/advising/proficiency-tests).

Students who receive Advanced Placement scores of AB 3 are strongly encouraged to enroll in 1151 and do not need special permission from a math advisor to do so.

Frequently asked questions about math placement

In order to be consistent and fair to everyone, the math department adheres to established guidelines for mathematics placement. Read the following for more information about the procedures.

Students who placed into calculus (course code L) can disregard the following information. They should instead reference the calculus sequence options on page 14. Students who have AP calculus credit should reference the AP conversion chart above. Students with post-secondary credit should send college or university transcripts to Undergraduate Admissions.

Q What happens when students do not take the online math skills assessment test before or during their orientation?

A Students must arrive at Morrill Tower at 2:30 p.m. on the day before their orientation program (e.g., on Sunday for a Monday orientation date) or 7:30 a.m. the morning of the first day of their orientation program to complete the assessment. (With the exception of July 4.) Students with disabilities

should contact the Ohio State Office for Disability Services at 614-292-3307 to make alternate arrangements for taking any math exam.

Q If students are sure they know more math than the course code indicates, can they take the assessment test again to do better?

A No, but students may take a proficiency exam over the course of their initial placement. (See information on the next page.) This exam is similar to a final exam, and a score of 70 percent or higher is required for consideration for being moved ahead. If permission is given to students to move ahead, most likely they will be able to get into a higher math class.

However, due to lab space limitations in science courses, they might not get into a science course. Students may take an exam only once for any course. While any student is welcome to take advantage of this opportunity, experience has shown that very few students succeed in advancing their placement. Proficiency exams are given no earlier than the Monday prior to the beginning of autumn semester. Advanced registration is necessary. Further information and registration is available at math.osu.edu/autumn-prof-tests.

Q Are students allowed to take a class higher than their course code indicates without taking another exam?

A Generally not. In particular, courses taken in high school or good SAT/ACT scores do not necessarily override the placement score. There are only two exceptions.

- Students with course code M who also took the Math D test may be able to start in 1151. See the third question below for details.
- Students who have ACT math scores of 22 or SAT math scores of 520 on tests taken within the last two years are considered to be at placement level N and qualify for Math 1116, 1125, 1130 or 1148.

Q If students took the Math Skills Assessment test and placed into 1148 (course code N), what options do they have to move ahead?

A They have two options:

- Take the 1148 proficiency exam
- Students who scored at the highest level on the B test are invited to take the D test (Precalculus Skills Assessment) for possible higher placement. If they took the Web-based version of the skills assessment, they will be able to take the D test at orientation because only the initial exam can be taken online.

Q What if students took the Math B test but have a higher ACT or SAT score that was not reported to Ohio State?

A If students' unreported ACT math score is 25 or higher (SAT math score of 570 or higher), they are eligible to take the Math D test, which may place them into a higher math course. If students have an unreported score, they should contact the Office of Testing at 614-292-2241 (open weekdays from 8 a.m. to 4:30 p.m.).

Q If students took the Math D test and placed at course code M, can they skip Math 1150 and start in 1151?

A Students may consult with a mathematics faculty member at orientation to ask for permission for Math 1151. In this special situation only, factors besides a student's skills assessment score are taken into account. The faculty member will also explain the advantages and disadvantages of level M students taking calculus. Calculus options are only allowed by permission in autumn semester. Students who receive such permission and then earn a D+ or lower in calculus in autumn semester, must revert back to 1150 the next time they take math.

Q What test do domestic transfer students take?

A Regardless of ACT or SAT scores, transfer students take the B test.

Q If students are enrolled in math courses this summer at another college or university, can this affect their placement?

A Yes, if the class is equivalent to a course offered at Ohio State. Send a copy of the student's Transfer Credit Report and detailed syllabi to 250 Math Building or fax it to the math advisors at 614-292-0167 for further evaluation. If an official transcript is in transit to Undergraduate Admissions, fax a copy of the syllabus and a copy of the grade earned to the math advisors at 614-292-0167. Be sure the grade copy contains the student's name, the name of the institution, the course number and the grade.

In addition, the student should provide the course number, recitation class number and time of the class that he or she wishes to add to the autumn semester schedule. The math advisors will either put the student into the course or on the wait list.

Mathematics proficiency testing information and registration

Students who feel that their performance on the Mathematics Skills Assessment does not accurately reflect their mathematical skills, and those students who wish to qualify for more advanced courses, including 1181H, will have an opportunity to take a proficiency test on the Monday immediately prior to the start of autumn semester classes.

Signing up for the test

View instructions and registration information at math.osu.edu/autumn-prof-tests. Students with disabilities should contact the Ohio State Office for Disability Services at 614-292-3307 to make alternate arrangements for taking any math exam.

Location of the test and what to bring

Students will be informed of the location when they register for the exam. They should arrive at least 15 minutes prior to the start time. All students must bring the following:

- a student I.D.
- pencils
- a non-graphing scientific calculator (e.g. TI-30) for 1050-1075, or a scientific or graphing calculator (e.g. TI-83, TI-84) for 1130-2153 (TI-89, TI-92, Voyager 200 or any calculator with a QWERTY keyboard are excluded.)

What do the scores mean?

Math advisors will email results from the test to students' Ohio State email accounts by 5 p.m. the next business day.

- **For scores of 80% or higher:** students will be eligible to enroll in the next course in the sequence and will be granted credit for the course over which they tested (Exceptions: credit by examination cannot be granted for 1050 or 1075).
- **For scores of 70% to 79%:** students may consult with the math department for possible consideration to enroll in the next course, but no credit will be granted.
- **For scores less than 70%:** students need to remain in the math course indicated by their course code.

Changing class schedules

Students cannot change their class schedules before taking a proficiency exam. At orientation, students may register only for math and science classes for which their original course codes qualifies them. If students qualify to advance after taking a proficiency exam, the Department of Mathematics will give them permission slips to take to their college offices to change their schedules.

Additional information

- Students have only one chance to take this test. If they do not pass, there are no further chances to advance.
- Find a list of topics for specific math courses at math.osu.edu/courses. Study for the test because students who do not prepare generally give themselves little chance to move ahead.
- Students interested in trying to advance two levels should schedule the first proficiency test on the Monday before the beginning of autumn semester. If they pass the first one, they may schedule a second test for later in the week.
- When students submit reservations electronically, the testing center will send them emails confirming the time and test selection. Record this time and location—no reminder email will be sent.
- Level L students (without Math 1151 credit) interested in enrolling in Math 1181H may use this online form to register for the Math 1151 exam.

INTERPRETATION OF ADVISING PROFILE REPORT

1. Personal Data

Students should print any corrections needed below the information that is incorrect, then sign and date the form.

2. English

The English placement requirement is indicated here. Students are required to complete the placement test prior to registering for English 1110 (any variation thereof) based on ACT/SAT requirements for new first-year students and on previous course credit for transfer students.

3. Mathematics

The mathematics placement code is indicated here. Each student will receive additional information about his/her placement code as it relates to his/her area of study.

Placement Code	Eligible for Math Course:
L	1116, 1118, 1125, 1131, 1151, 1156, 1161, 1165, 1181
M	1150, 1130, 1148, 1116, 1125, 1131*, 1151*
N	1148, 1130, 1116, 1125
R	1116, 1125, 1075
S	1075
T	1050
U	Undetermined

* with permission from the Math Department

4. ACT or SAT Standard Scores

Standard scores reported to The Ohio State University

5. Advanced Placement (AP) Scores

Scores reported to The Ohio State University

6. Course Credits

Listing of credit earned at Ohio State, transferred to Ohio State and/or earned through examination

ADVISING PROFILE REPORT
 Orientation For: Autumn 2012

Brutus Buckeye	ID: 000000000	ADVISING GROUP: Biological Sciences
PROGRAM DATE: 7/12/2012	CAMPUS: Columbus	OSU EMAIL: buckeye.1@osu.edu
GENDER: MALE	ETHNICITY: WHITE	HOME CITY/STATE: Columbus, OH
BIRTHDATE: 3/26/1994	CITIZENSHIP: USA	VISA TYPE:
PROGRAM: Humanities	PLAN: Philosophy	
	PLAN: Law	

High School /Previous University:	Grad Date	Degree
Marion Technical College Marion OH		
North Central State Coll Mansfield OH		
The Ohio State University Columbus OH		
Northmor Local High School Galion OH	6/5/2011	High School Diploma

High School Units:
 ENGL 4.0 FLNG 3.0 MATH 6.7 NSCI 4.2 SSCI 4.2 VPA 1.0 XTRA 1.0
 Detail: German 10
 ORIENTATION FOREIGN LANGUAGE PLACEMENT TEST SCHEDULED: German

The personal information above will be part of your permanent record. Draw a line through any incorrect information and print the correction below it. Additions to high schools and college/universities attended should be placed below those printed.

By signing and returning this form I authorize changes and affirm that the information provided by me is complete and true. I understand that furnishing false information on this form may result in cancellation of admission or registration or both

1

STUDENT SIGNATURE/DATE

Test score and Placement Results:
 8/2010 ENGLISH PLACEMENT = 4
 7/2011 GERMAN GRMN = 7.2 7/2011 GERMAN PLGMT = 9
 AP 1/2009 AMHS = 4

2

5

8/2010 MATH PLACEMENT = L FORMD Raw score = 19 Quality points = 30

ACT:	EN	MA	RD	SR	CP	SAT:	VB	MA	WR	ES	MC
02/2009	32	33	31	30	32	05/2009	650	680	660	011	063
12/2009	32	30	33	36	33	06/2010	700	690	730	011	069

3

4

English Placement Information:
 4 = Enroll in English 110.01, 110.02, 110C01, or a service learning version of English 110.03 and 193.03.

Math Placement Information:
 You have placed at course code L on your math skills assessment. See the Calculus Options at www.math.ohio-state.edu/counseling/calculus_options.html or discuss your calculus options with a Mathematics Department faculty member during orientation.
 NOTE:
 **If you have taken the Advanced Placement Exam (AP Exam) in mathematics, your score on that exam might alter your placement. For information on how the Department of Mathematics awards credit of AP scores, go to the Advanced Placement Credit Link at www.math.ohio-state.edu/counseling/advanced_placement.html. You will be receiving more information from the Mathematics Department once your AP scores are received.

**If you have transfer credit in mathematics from another university or college, this may allow you to schedule higher courses. This would include any coursework that you did at a university or college while you were still in high school. Please be sure to have your transcript sent to the Admissions Office, as soon as possible, so that transfer credit may be awarded.

Credited Courses:

Autumn 2011	HONORS 296H 5 A ENGINEER 181.01 3 B+ PHILOS 101 5 A MATH 153.01 5 C- ENGLISH 201H 5 PHILOS 301 5 CHEM 121 5 B+ PHILOS 270 5 A	HISTORY 151 5 EM MATH 151.01 5 B+ CHEM 122 5 B+ PSYCH 100 5 A PHILOS 458 5 MATH 152.01 5 B PHILOS 130 5 A PHILOS 270 5
-------------	--	---

6