Bachelor of Science degree requirements, including the General Education Program

(Also applies to Bachelor of Science in Atmospheric Sciences and Bachelor of Science in Geographic Information Science)

Summer Term 2023

The following degree requirements are effective summer term 2023 and apply to you if you began your career as a regularly enrolled college student at Ohio State autumn semester 2022 or later. Check the web site https://go.osu.edu/ascadvising for updated information. Consult your advisor before making enrollment decisions.

Your Responsibility as a Student

You are responsible for knowing the published policies governing the curriculum you are pursuing, as well as the regulations and procedures of the college and the university. TheBachelor of Science, Bachelor of Science in Atmospheric Sciences, and Bachelor of Science in Geographic Information Science curriculum sheet should be used in conjunction with the degree planning information and college policies, published online, at https://go.osu.edu/ascadvising and in consultation with your academic advisor.

Bachelor of Science (BS), Bachelor of Science in Atmospheric Sciences (BSATMSSC), and Bachelor of Science in Geographic Information Science (BSGEINSC) Majors

The information contained in this curriculum sheet pertains to students following one of the majors listed below. In addition, each Arts and Sciences division offers the personalized study program.

Arts and Humanities BS Major

- Music\(^1\) (admission is selective)\(^2\)

\(^*\)See the Professional Programs in the Arts curriculum sheet for the Bachelor of Fine Arts (BFA), Bachelor of Music (BM), and Bachelor of Music Education (BME) degree requirements.

Bachelor of Science in Atmospheric Sciences (BSATMSSC) Major

Atmospheric Sciences

Bachelor of Science in Geographic Information Science (BSGEINSC) Major

Geographic Information Science

Natural and Mathematical Sciences BS Majors

- Actuarial Science
- Astronomy and Astrophysics
- Biochemistry\(^2\)
- Biology\(^2\)
- Chemistry\(^2\)
- Computer and Information Science\(^2\) (admission is selective)
- Data Analytics
- Earth Sciences\(^2\)
- Evolution and Ecology
- Integrated Mathematics and English
- Mathematics
- Microbiology
- Molecular Genetics
- Physics
- Statistics
- Vision Science (only open to students enrolled in the College of Optometry)
- Zoology\(^2\)

Social and Behavioral Science BS Majors

- Anthropological Sciences\(^2\)
- Economics\(^2\)
- Geography\(^2\)
- International Studies\(^2\)
- Medical Anthropology\(^2\)
- Neuroscience
- Political Science\(^2\)
- Psychology\(^2\)
- Sociology\(^2\)

\(^2\)These majors are also available under the Bachelor of Arts (BA) degree. See the Arts and Sciences BA curriculum sheet for the BA degree requirements.

General College Requirements

- You must earn a minimum of 121 semester credit hours to earn an Arts and Sciences degree. You will complete general college and major requirements, General Education (GE) requirements, and elective course work to reach a minimum of 121 credit hours.

- Remedial courses (courses at the 10XX-level or below, and English 1109) and credit hours earned in repeated course work do not count toward the 121 hour minimum requirement for the Bachelor of Arts or Bachelor of Arts in Journalism. Note that you can take both "versions" of cross-listed courses (e.g., Comparative Studies 2214/Sexuality Studies 2214), however, since the two versions are in fact the same course, only one may count toward your minimum degree hours.

- The number of hours required to complete the Bachelor of Science, Bachelor of Science in Atmospheric Sciences, and Bachelor of Science in Geographic Information Science degree with a given major will depend on your program and goals.

You may need to plan a program of more than 121 credit hours if you wish to complete specific professional or studio training, are preparing for graduate study in certain disciplines, or have multidisciplinary goals.

If the combination of course work for the (GE), prerequisites, and your major program totals fewer than 121 hours, you have many options for the remaining hours, called electives. With your elective hours, you could pursue a second major, a minor, or a combination degree program; select a set of courses on a specific topic; engage in an undergraduate research experience; do internships; and/or study abroad. You are urged to meet with your academic advisor to work out a plan that best fits your needs and interests. In no case shall the number of hours required for graduation be fewer than 121.

Within the minimum 121 credit hours, you must have:

- A minimum of 111 hours of Arts and Sciences or Arts and Sciences-approved courses. (Arts and Sciences-approved courses include non-Arts and Sciences courses taken toward completion of GE requirements and/or an officially declared minor program.)

You may count a maximum of 10 hours of non-Arts and Sciences and non-Arts and Sciences-approved course work toward your degree. Of the 10 hours, no more than 4 may be from physical activities courses taught in Kinesiology: Sport, Fitness, and Health Program (KNSFHP); physical activities courses include all 1100-level KNSFHP courses except for 1102, 1103, 1122, and 1137. A maximum of 8 hours of technical credit may be counted toward the 10 hours of non-Arts and Sciences and non-Arts and Sciences-approved course work; however, the combination of KNSFHP, technical, and other non-Arts and Sciences credit hours may not exceed 10.

- A minimum of 39 hours of Arts and Sciences or Arts and Sciences-approved upper-division course work.

Upper-division courses are defined as all Arts and Sciences courses at the 3000-level or above, Philosophy 2500, all courses taught by departments in mathematical and physical sciences (Astronomy, Chemistry and Biochemistry, Computer Science and Engineering, Earth Sciences, Mathematics, Physics, and Statistics) at the 2000-level and above (except for Earth Sciences 2911 and any courses numbered 2194), and world language courses taught in the language at the 2000-level. Note that Gen Ed 4001, the reflection seminar, does not count as an Upper-division course. Your 39 upper-division hours may come from hours earned for the GE, the major, the minor (if applicable), and electives.

- A minimum of 30 credit hours earned through regular course enrollment at Ohio State.

- Regular course enrollment at Ohio State and in the College of Arts and Sciences in your final term.

In addition, you must have:
• A cumulative grade point average (GPA) of at least 2.0 for all work attempted at Ohio State.
• A cumulative GPA of at least 2.0 in your major.
• An application for the degree on file in the Arts and Sciences Graduation Services office in Denney Hall.

General Education (GE) Requirements

Ohio State’s General Education (GE) is designed to develop and refine qualities, abilities and characteristics that prepare its students to be engaged, resilient and adaptable citizens and leaders for life. It aims to develop in students an engagement with and an ability to apply a range of important modes of thought and inquiry. Through it, students will examine significant aspects of the human condition in local, state, national and global settings today and in the foreseeable future.

The curricular requirements are organized into eleven categories under three headings: Bookends, Foundations, and Thematic Pathways (Themes). Details regarding completion of these requirements, including lists of approved courses, are found on pages 3 – 7.

In fulfilling the GE, you may petition (in advance) with your advisor to substitute upper-division courses that meet the spirit of the GE for courses on the GE. If you have transferred to Ohio State from another institution, you can often fulfill part of the GE with approximately equivalent courses already taken. Your transfer course work will be reviewed in Arts and Sciences Advising, and courses that meet the spirit of the GE will be applied to the GE.

You must earn at least a D in a course for it to fulfill a GE requirement. Courses taken on a pass/non-pass or satisfactory/unsatisfactory basis cannot be used to fulfill GE requirements. (A note regarding transfer credit: a grade of D or D+ will not transfer to Ohio State unless it was earned at another public college or university in the state of Ohio.)

Requirements for the Major

Your major program must consist of at least 30 semester hours of credit in courses numbered 2000 or above as prescribed by your advisor. Please note that many major programs require considerably more than 30 hours of credit.

You must earn at least a C- in a course in order for it to be listed on your major. In addition, you must receive a 2.0 cumulative GPA for all major course work. If you earn a D+, D, or an E in a course that is required for your major, the course cannot be counted toward the major. Your advisor will decide if the course should be repeated or if another course should be substituted. Courses taken on a pass/non-pass basis cannot be used on the major.

You must complete major coursework designated to fulfill embedded literacy requirements in advanced writing, data analysis, and technology. Consult your academic advisor for information about fulfilling embedded literacies.

Your advisor must approve all courses comprising your major. If you change from one major or curriculum to another, consult your advisor. Such changes may result in modifying requirements to such an extent that your date of graduation might be delayed.

At least one-half of the credit hours in the major must be credit from completed Ohio State course work. Note: AP/IB/EM credit and transfer credit from other institutions are not considered to be “Ohio State course work.”

If you are pursuing multiple majors, course work may overlap between the majors, provided that each major department allows such overlap and that each major has at least 18 unique (non-overlapping) semester hours. Similarly, if you are planning multiple majors, additional overlap between major course work and the GE may be permitted—again, with permission of the major department and at least 18 unique non-overlapping semester hours on each major.

Requirements for a Minor

A minor consists of a minimum of 12 semester hours at the 2000-level and above and a maximum of 18 semester hours. At least 6 hours on the minor must be at the upper-division level. Upper-division courses are defined as all Arts and Sciences courses at the 3000-level or above, Philosophy 2500, all courses taught by departments in mathematical and physical sciences (Astronomy, Chemistry and Biochemistry, Computer Science and Engineering, Earth Sciences, Mathematics, Physics, and Statistics) at the 2000-level and above (except for Earth Sciences 2911 and any courses numbered 2194), and world language courses taught in the language at the 2000-level. Note that Gen Ed 4001, the reflection seminar, does not count as an Upper-division course. Your 39 upper-division hours may come from hours earned for the GE, the major, the minor (if applicable), and electives.

1000-level courses may not be included in a minor. No more than 3 hours of X193 course work may be included in a minor, and no more than 3 hours of courses graded “S/U” may be included in a minor. Up to 6 total credit hours of transfer credit and/or credit by examination may be counted toward a minor. A maximum of 6 semester hours on the minor may also count on the GE.

No grade below a C- will be permitted in courses constituting a minor. In addition, you must receive a 2.0 cumulative GPA for all minor course work. Courses taken on a pass/non-pass basis may not count toward a minor. You are not permitted to take a major and minor in the same subject. However, if the minor consists of more than 12 semester hours, some overlap with the major may be permitted. Consult your advisor.

You may pursue more than one minor. Each minor must contain a minimum of 12 unique (non-overlapping) semester hours. Once a minor program form is on file in the college office, any changes must be approved by the departmental (minor) advisor. Students are strongly encouraged to declare the minor and file the minor program form as early as possible; declaration of the minor and filing of the minor program form must occur at least one term prior to the graduation term.

Exclusivity of GE, Major, and Minor Courses

With the exceptions noted below, courses may not be counted on both the GE and the major. A maximum of 6 semester hours on the minor may also count on the GE. If the minor consists of more than 12 semester hours, some overlap with the major may be permitted. Consult your advisor.

Some GE courses are listed in more than one category; with the exceptions noted below, however, GE courses may not be used to fulfill more than one GE requirement.

Courses Used to Fulfill More than One Requirement

Students can apply up to two Theme courses to their major. The courses must be in different Themes (one in Citizenship and one in the “choice” Theme). Foundation courses cannot apply to the major directly but may be counted as prerequisite or major-foundation courses. No overlap is allowed between the Foundations and major coursework.

Group Studies and Individual Studies

Group studies (XX94) courses and individual studies (XX93) courses are not acceptable for fulfilling GE requirements except when a specific experimental course has been approved by the Arts and Sciences Curriculum Committee. If a course has been approved, it will be listed on this curriculum sheet.

Honors Courses

In order to enroll in an honors course, you must be an honors student or have instructor permission. Check the course catalogue (course bulletin) at buckeyelink.osu.edu for a full listing of honors courses. Honors courses are marked with an H after the course number.

Honors Embedded Courses

In order to enroll in an honors embedded course, you must be an honors student or have instructor permission. Check the course catalogue (course bulletin) at buckeyelink.osu.edu for a full listing of honors embedded courses. Honors embedded courses are marked with an E after the course number.

Service Learning Courses

Service learning courses are designed to enrich students’ understanding of course content, broaden their appreciation of the discipline, and enhance development of civic responsibility. A service-learning course uses experiential strategies characterized by student participation in an organized service activity, is connected to specific learning outcomes, meets identified community needs, and provides structured time for students to analyze and connect the service experience to learning. Check the course catalogue (course bulletin) at buckeyelink.osu.edu for a full listing of service learning courses. Service learning courses are marked with an S after the course number. Please note that all service learning courses are listed as individual courses in the catalogue, but on this curriculum sheet, a service learning course is listed individually only if there is no equivalent, non-service learning course available.
Requirements for Additional Baccalaureate Degrees

If you are pursuing multiple baccalaureate degrees, you must earn at least 30 additional semester hours for each additional degree beyond the 121 hours required for a single degree, and at least 18 of the additional 30 hours must be Arts and Sciences or Arts and Sciences-approved upper-division course work. If four or more years have elapsed since you earned the previous degree, you must complete 30 semester hours at Ohio State beyond what you earned for that degree. The GE requirements for each degree must be fulfilled. (For example, a student earning both BA and BS degrees is required to complete calculus, which is not required for the BA, because such course work is required for the BS.) No overlap between majors, or between the major and the GE, is permitted. You must pursue a major different from the major earned as part of your other degree(s). No more than 6 semester credit hours of any previous minor course work may be used on the major for an additional degree. You must also petition for approval to pursue an additional degree at least a semester before your graduating term. You should consult your advisor regarding the petition process. An approved major program form must accompany the petition. Note: different rules apply to students pursuing multiple professional degrees in the Arts, namely the BAE, BFA, BM, BME, and BSD. See materials specific to those programs for details.

Consult your advisor for information about combined degree programs with the College of Dentistry and the College of Optometry.

**SUMMARY OF BS DEGREE REQUIREMENTS**

<table>
<thead>
<tr>
<th>GE Hours</th>
<th>34 – 42</th>
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</thead>
<tbody>
<tr>
<td>Bookends</td>
<td>1</td>
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<tr>
<td>Reflection Seminar</td>
<td>1</td>
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<tr>
<td>Foundations</td>
<td></td>
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<tr>
<td>Writing and Information Literacy</td>
<td>3</td>
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<tr>
<td>Mathematical and Quantitative Reasoning or Data Analysis</td>
<td>5 – 8</td>
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<tr>
<td>Literary, Visual and Performing Arts</td>
<td>3</td>
</tr>
<tr>
<td>Historical and Cultural Studies</td>
<td>3</td>
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<tr>
<td>Natural Sciences</td>
<td>4 – 5</td>
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<tr>
<td>Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Race, Ethnicity, and Gender Diversity</td>
<td>3</td>
</tr>
<tr>
<td>Thematic Pathways</td>
<td></td>
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<tr>
<td>Citizenship for a Diverse and Just World</td>
<td>4 – 6</td>
</tr>
<tr>
<td>Second theme (student choice)</td>
<td>4 – 6</td>
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<tr>
<td>World Language Proficiency</td>
<td>0 – 121</td>
</tr>
<tr>
<td>Major Hours</td>
<td></td>
</tr>
<tr>
<td>College Survey 1100</td>
<td>1</td>
</tr>
<tr>
<td>Minimum semester hours required</td>
<td>121</td>
</tr>
</tbody>
</table>

Hours required for the GE, World Language Proficiency, your major, College Survey 1100, and available elective hours will bring your total credit hours to the minimum hours required for graduation.

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**COLLEGE REQUIREMENT: WORLD LANGUAGE PROFICIENCY, 0 – 12 hours**

The goal of courses in the category is to help students develop and demonstrate linguistic and cultural competence by accomplishing real-world communicative tasks in culturally appropriate ways in a language other than their first language and demonstrate knowledge of target culture(s) and attitudes on cultural diversity reflective of an interculturally competent global citizen.

You must complete course work through the third language course (1103 or equivalent).

**World Languages offered**

<table>
<thead>
<tr>
<th>American Sign Language</th>
<th>Italian</th>
<th>Russian</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arabic</td>
<td>Japanese</td>
<td>Somali</td>
</tr>
<tr>
<td>Bosnian/Serbian/Croatian</td>
<td>Korean</td>
<td>Spanish</td>
</tr>
<tr>
<td>Chinese</td>
<td>Latin</td>
<td>Swahili</td>
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<tr>
<td>Czech</td>
<td>Modern Greek</td>
<td>Swedish</td>
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<tr>
<td>French</td>
<td>Persian</td>
<td>Turkish</td>
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<td>German</td>
<td>Polish</td>
<td>Urdu</td>
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<td>Greek</td>
<td>Portuguese</td>
<td>Uzbek</td>
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<td>Hebrew</td>
<td>Quechua</td>
<td>Yiddish</td>
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<tr>
<td>Hindi</td>
<td>Romanian</td>
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</tr>
</tbody>
</table>

*Some languages are not offered every term.

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**GE REQUIREMENTS**

**GE BOOKENDS**

The goal of the launch seminar is to help students develop an understanding of the purpose and structure of the GE; to help students begin to develop critical skills and habits to navigate the academic environment; and to help articulate students’ academic and program goals and find opportunities to express those goals within the GE from various disciplinary perspectives.

Take Gen Ed 1201 by the third semester of enrollment.

**Reflection Seminar**

The goal of the reflection seminar is to help students demonstrate the intellectual and cognitive skills that prepare them to be engaged citizens and leaders for life by reflecting on a range of important modes of human thought, inquiry and expression; to help students be interculturally competent global citizens who can engage with significant aspects of the human condition in local, state, national and global settings; and to help students demonstrate skills and abilities needed for engaged citizenship and personal and professional growth.

Take Gen Ed 4001 in the penultimate or final semester of enrollment. Note that Gen Ed 4001 does not count toward the 39 minimum Upper-division hours required for an Arts and Sciences degree.

**GE FOUNDATIONS**

**Writing and Information Literacy, 3 hours**

The goal of courses in this category is to develop students’ skills in effective reading and writing as well as in oral, digital, and/or visual communication for a range of purposes, audiences and context.

Choose one course from the following list:

- Art Education 2367.02, 2600, 2600H, 2700
- Comparative Studies 2367.02 [SP23 and later], 2367.04 (SP23 and later), 2367.04H (SP23 and later), 2367.06 (SP23 and later), 2367.06H (SP23 and later), 2367.08 (SP23 and later), 2367.08H (SP23 and later), 2367.08H (SP23 and later), 2367.10 (SP23 and later), 2367.12 (SP23 and later)
- Dance 2367, 2367H
- Engineering 1300
- English 1110.01, 1110.01H, 1110.02, 1110.02H, 1110.03
- Film Studies 2367.01, 2367.02
- Nursing 2367
- Philosophy 2367
- Theatre 2367.01, 2367.02, 2700

**Mathematical and Quantitative Reasoning or Data Analysis, 5 – 8 hours**

The goal of courses in this category is to help students apply quantitative or logical reasoning and/or mathematical/statistical methods to understand and solve problems and communicate their results.

Take Mathematics 1151, or 1140 and 1141, or equivalent. Note that if you choose 1140 rather than 1151, both 1140 and 1141 must be successfully completed in order to fulfill the category. [Additional note: if you do not place into Mathematics 1151 (or 1140) via placement test or based on transfer credit, you must take the prerequisite course work prior to enrolling in 1140 or 1151.]

**Literary, Visual and Performing Arts, 3 hours**

The goal of courses in this category is to help students analyze, interpret, and evaluate major forms of human thought, cultures and expressions; to demonstrate capacities for aesthetic and culturally informed understanding; and to experience the arts and reflect on that experience critically and creatively.

Choose one course from the following list:

- African American and African Studies 2101, 2251, 2252, 2270, 2281, 2288, 2367.01, 2367.04
- Arabic 2701, 3705
- Art 2100, 2100E, 2300, 2300E, 2555, 2555H, 3002
- Art Education 1600, 2600, 2600H
- Chinese 2451, 4402, 4403, 4404, 4405
- Classics 1101, 1101H, 2220, 2220H, 2221, 2221E, 3203
- Comparative Studies 1100, 1100H, 2101, 2101H, 2102H (SP23 and later), 2103, 2103H (SP23 and later), 2104, 2104H, 2105, 2105H, 3603, 3606, 3607, 3608, 3686
- Dance 2401, 2500
- East Asian Languages and Literatures 3405, 3446
- Education: Teaching and Learning 2368, 3356, 3356E, 3368
- English 2201, 2201H, 2202, 2202H, 2220, 2220H, 2260, 2260H, 2261, 2266H, 2262, 2263, 2269, 2275, 2280, 2280H, 2281, 2290, 2291, 2367.02, 2367.02H, 2464, 3372
Historical and Cultural Studies, 3 hours

The goal of courses in Historical Studies is to help students investigate and analyze, critically, historically important ideas, events, persons, and artifacts to understand how they shape society and people. The goal of courses in Cultural Historical Studies is to help students evaluate significant cultural phenomena and ideas to develop capacities for aesthetic and cultural response, judgment, interpretation and evaluation.

Choose one course from the following list.

- African American and African Studies 1111, 1121, 1122, 2080, 2081, 2285
- Anthropology 1100, 2241
- Art Education 2550
- Arts and Sciences 2400, 2400E, 4870
- Bioethics 2000, 2010
- Chinese 2231, 2232
- Classics 2201, 2201H, 2202, 2202H, 2205, 2221, 2221E, 2222, 2301, 2300, 3200, 3215, 3401, 3404, 3408
- Community Leadership 3535
- Comparative Studies 2264, 2281, 2321, 2322, 2323, 2340, 2350, 2350H, 2360, 2367 04 (SP23 and later), 2367 04H (SP23 and later), 2367 07 (SP23 and later), 2367 08 (SP23 and later), 2367 08H, 3302, 3302E
- Consumer Sciences: Fashion and Retail Studies 2374
- Dance 3401, 3402
- East Asian Languages and Literatures 1231
- Economics 4130, 4410
- English 1167H, 2264, 2270, 2270H, 2282, 3271, 3364, 3378
- Engineering 5797 13, 5797 18
- Environment and Natural Resources 3470, 3470E
- Entomology 3797 01E, 3797 02E
- Educational Studies: Philosophy and History of Education 3410
- French 2082
- German 2350
- Hebrew 2241, 2241H
- History of Art 2201, 2201H, 2202, 2202H, 2203, 2203H, 2005, 2301
- History 1102, 1151, 1152, 1211, 1212, 1681, 1682, 2001, 2001H, 2002, 2002H, 2010, 2015, 2040, 2066, 2070, 2071, 2075, 2080, 2081, 2100, 2105, 2110, 2111, 2115, 2120, 2125, 2201, 2202, 2203, 2204H, 2206, 2210, 2211, 2213, 2220, 2221, 2221E, 2223, 2231, 2240, 2250, 2270, 2271, 2271H, 2280, 2301, 2302, 2303, 2305, 2351, 2352, 2353, 2392, 2393, 2401, 2402, 2405, 2452, 2453, 2454, 2455, 2475, 2500, 2550, 2610, 2610H, 2620, 2630, 2641, 2642 (SP23 and later), 2650, 2651, 2657, 2675, 2680, 2700, 2705, 2720, 2750, 2750H, 2752, 2757 02, 3005, 3006, 3016, 3210, 3211, 3212, 3214, 3214, 3215, 3218, 3219 (SP23 and later), 3220 (SP23 and later), 3272, 3273, 3260, 3262, 3277, 3282, 3355, 3404, 3405, 3426, 3450, 3475, 3505, 3570, 3575 (SP23 and later), 3641, 3702, 3720, 4870
- Health and Rehabilitation Sciences 2530
- International Studies 3350
- Islamic Studies 2351, 3205, 3355, 3501
- Japanese 2231
- Jewish Studies 2201, 2241, 2242, 2242H, 2245, 2452, 2453, 2454, 2455, 2475, 2516, 3210, 3214H, 3450, 3505
- Kinesiology: Sport Industry and Sport Management 2210, 2211
- Korean 2231, 2797
- Landscape Architecture 2367, 2367E (SP23 and later)
- Linguistics 3601, 3901

Natural Sciences, 4 – 5 hours

The goal of courses in the category is to engage students in theoretical and empirical study within the natural sciences, to help students gain an appreciation of the modern principles, theories, methods, and modes of inquiry used generally across the natural sciences, and to help students discern the relationship between the theoretical and applied sciences while appreciating the implications of scientific discoveries and the potential impacts of science and technology.

Choose a three-credit hour course and combine it with the same department’s one-hour lab, or choose a four-credit or five-credit hour course from the following list. Note: some three-credit hours have designated one-hour lab courses. See below for specific course pairings.

Three-credit hour courses:
- Animal Sciences 2200.01
- Earth Sciences 1100, 1101H, 1105, 1108, 1121, 112H, 1115
- Entomology 2101
- Environment and Natural Resources 2100 (take 2101 as the one-hour lab), 3000 (take 3001 as the one-hour lab)
- Horticulture and Crop Science 2200

One-hour labs:
- Animal Sciences 2200.02
- Earth Sciences 1200
- Entomology 2102
- Environment and Natural Resources 2101, 3001
- Horticulture and Crop Science 2206

Four-credit and Five-credit hour courses:
- Anthropology 2200, 2200H
- Astronomy 1101
- Biology 1101, 1103, 1113.02, 1113E, 1113H, 1114.01, 1114.02, 1114E, 1114H
- Chemistry 1110, 1210, 1220, 1250, 1610, 1620, 1910H, 1920H
- Entomology 1101, 1111
- Food Science and Technology 1200
- Geography 1900, 1900H
- Horticulture and Crop Science 2202, 2202E
- Human Nutrition 2410
- Microbiology 4000.01, 4000.02
- Molecular Genetics 1101
- Physics 1106.01, 1107.01, 1200, 1250, 1250H, 1260, 1270

Social and Behavioral Sciences, 3 hours

The goal of courses in this category is to help students analyze and apply theoretical and empirical methods within the social and behavioral sciences, critically, including modern principles, theories, methods and modes of inquiry and to enable students to recognize the implications of social and behavioral scientific findings and their potential impacts.

Choose one course from the following list.

- Agricultural and Food Economics 2011, 2128
- Animal Sciences 2367
- Anthropology 1100, 2200, 2201H, 2202, 2202H, 3419, 3420, 3597.01, 3597.02
- Business Administration: Management and Human Resources 2500
- City and Regional Planning 3500
- Communication 1100, 1101
- Consumer Sciences 2910
- Consumer Sciences: Fashion and Retail Studies 2372, 2375
- Economics 1100.01, 1100.02, 2001.01, 2001.03H, 2002.01, 2002.03H, 2002.01, 2002 0H, 2376.02
- Education: Teaching and Learning 3160
- Environmental and Natural Resources 2101, 3001 as the one-hour lab
- French and Italian 3301 (SP23 and later)
Choose one course from the following list.

**African American and African Studies 1101, 1112, 2201, 2218, 2270, 2281, 2367.04**

**Anthropology 1101, 2210**

**Art Education 2600, 2600H, 2700**

**City and Regional Planning 3510**

**Classics 3215 (SP23 and later)**

**Comparative Studies 1100, 1100H, 2301 (SP23 and later), 2322 (SP23 and later), 2350, 2350H, 2995**

**Dance 2500**

**Education: Teaching and Learning 3005, 3368**

**Educational Studies: Higher Education and Student Affairs 2577**

**Educational Studies: Philosophy and History of Education 3206**

**English 2176, 2221, 2270, 2270H, 2281, 2282, 2381, 2381H**

**Hebrew 3704**

**Human Development and Family Science 3440**

**History of Art 3010, 3010H, 3605, 3605H**

**History 2455, 2620 (SP23 and later), 3215 (SP23 and later), 3231 (SP23 and later)**

**Japanese Studies 2455, 2704**

**Linguistics 3601**

**Near Eastern Languages and Cultures 1125**

**Public Affairs 2170**

**Religious Studies 2370, 2370H**

**Slavic Languages and Literatures 2995.99**

**South Asia Studies 2230**

**Sociology 2309 (SP23 and later), 2463**

**Spanish 2242 (SP23 and later)**

**Social Work 1120, 1130, 1130H**

**South Asia Studies 3025**

**Women's, Gender and Sexuality Studies 1110, 110H, 2260**

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### Citizenship for a Diverse and Just World, 4 or 6 hours

The goal of courses in this theme is to help students analyze concepts of citizenship, justice and diversity at a more advanced and in-depth level than in the Foundations component. More specifically:

- **Successful students will integrate approaches to understanding citizenship for a just and diverse world by making connections to out-of-classroom experiences with academic knowledge or across disciplines and/or to work they have done in previous classes and that they anticipate doing in future.**
- **Successful students will explore and analyze a range of perspectives on local, national or global citizenship and apply the knowledge, skills and dispositions that constitute citizenship.**
- **Successful students will examine notions of justice amid diversity and analyze and critique how these interact with historically and socially constructed ideas of citizenship and membership within society, both within the United States and around the world.**

Choose two 3-hour courses, or one 4-hour course, from the following list. Note that, if you choose two 3-hour courses, the two courses must come from different departments.

#### 3-hour courses:

- **African American and African Studies 3450**
- **Anthropology 5626 (SP23 and later)**
- **Communication 2850 (SP23 and later)**
- **English 2276, 2277, 3011.01, 310, 3264, 3395**
- **French and Italian 3054 (SP23 and later)**
- **Geography 5502 (SP23 and later)**
- **German 3252.01, 3252.02, 3254H, 3351**
- **Heath and Rehabilitation Science 4000 (SP23 and later)**
- **Hebrew 3245**
- **History 3002, 3014, 3017, 3213, 3213H, 3245, 3265 (SP23 and later), 3351, 3561 (SP23 and later), 3670 (SP23 and later), 3676, 3680, 3712**
- **International Studies 3450, 4873**
- **Islamic Studies 3201 (SP23 and later)**
- **Jewish Studies 3245**
- **Linguistics 3605**
- **Music 3364, 3364E**
- **Political Science 2120, 2150 (SP23 and later)**
- **Psychology 3900**
- **Public Affairs 2120, 2150 (SP23 and later)**
- **Religious Studies 3678, 3680, 4873**
- **Slavic Languages and Cultures 3320**
- **Sociology 3200**
- **South Asia Studies 3220, 3625**

#### 4-hour courses:

- **Near Eastern Languages and Cultures 3025**
- **Public Affairs 3210**
- **South Asia Studies 3025**

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### Second Theme, 4 or 6 hours

Choose two 3-hour courses or one 4-hour course (where 4-hour courses are available) from one of the following themes. Note that, if you choose two 3-hour courses, the two courses must come from different departments.

#### Health and Wellbeing, 4 or 6 hours

The goal of courses in this theme is to help students analyze health and well-being at a more advanced and deeper level than in the Foundations component. More specifically:

- **Successful students will integrate approaches to health and well-being by making connections to out-of-classroom experiences with academic knowledge or across disciplines and/or to work they have done in previous classes and that they anticipate doing in future.**
- **Students will explore and analyze health and well-being through attention to at least two dimensions of well-being (e.g., physical, mental, emotional, career, environmental, spiritual, intellectual, creative, financial, etc.).**

Choose two 3-hour courses, or one 4-hour course, from the following list. Note that, if you choose two 3-hour courses, the two courses must come from different departments.

#### 3-hour courses:

- **African American and African Studies 5650**
- **Anthropology 3302 (SP23 and later), 5700 (SP23 and later), 5602 (SU23 and later), 5702 (SP23 and later), 6604 (SP23 and later)**
- **Biology 2105 (SP23 and later)**
- **Communication 3442, 4736 (SP23 and later), 4737 (SP23 and later)**
- **English 3031, 3264**
- **Food Science and Technology 2300, 4597.01**
Choose two 3-hour courses from the following list. The two courses must come from different departments.

African American and African Studies 3086 (SP23 and later), 3370 (SP23 and later), 3376 (SP23 and later)
History 3086 (SP23 and later), 3254 (SP23 and later)
History of Art 3102
Linguistics 3902
Social Work 5004 (SP23 and later), 5005 (SP23 and later), 5030 (SP23 and later)

Number, Nature, Mind, 4 or 6 hours

The goal of courses in this theme is to help students analyze the ideas embodied within "Number, Nature, Mind" at a more advanced and in-depth level than in the Foundations component. More specifically:

- Successful students will integrate approaches to understanding the ideas embodied within "Number, Nature, Mind" by making connections to out-of-classroom experiences with academic knowledge or across disciplines and/or to work they have done in previous classes and that they anticipate doing in future.
- Successful students will experience and examine mathematics as an abstract formal system accessible to mental manipulation and/or mathematics as a tool for describing and understanding the natural world.

Choose two 3-hour courses from the following list. The two courses must come from different departments.

Linguistics 4052
Philosophy 2650 (SP23 and later), 2660 (SP23 and later)

Origins and Evolution, 4 or 6 hours

The goal of courses in this theme is to help students analyze "Origins & Evolution" at a more advanced and in-depth level than in the Foundations component. More specifically:

- Successful students will integrate approaches to understanding the issues involved in origins and evolution by making connections to out-of-classroom experiences with academic knowledge or across disciplines and/or to work they have done in previous classes and that they anticipate doing in future.
- Successful students will appreciate the time depth of the origins and evolution of natural systems, life, humanity, or human culture, and the factors that have shaped them over time.

Courses for this Theme are under development.
The goal of courses in this theme is to help students analyze sustainability at a more advanced and in-depth level than in the Foundations component. More specifically:

- Successful students will analyze sustainability at a more advanced and in-depth level than in the Foundations component.
- Successful students will integrate approaches to sustainability by making connections to out-of-classroom experiences with academic knowledge or across disciplines and/or to work they have done in previous classes and that they anticipate doing in future.
- Successful students will analyze and explain how social and natural systems function, interact and evolve over time; how human well-being depends on these interactions; how actions have impacts on subsequent generations and societies globally; and how human values, behaviors and institutions impact multifaceted potential solutions across time.

Choose two 3-hour courses, or one 4-hour course, from the following list. Note that, if you choose two 3-hour courses, the two courses must come from different departments.

3-hour courses:
- Anthropology 3623, 4597.03H
- City and Regional Planning 3210 (SP23 and later)
- Comparative Studies 4420
- Environment and Natural Resources 3200 (SP23 and later), 3400 (SP23 and later)
- Food, Agriculture, and Biological Engineering 3210 (may be taken concurrently with 3211 to complete the Theme), 3400.01
- Food Science and Technology 3400.01
- Geography 3755, 3801 (SP23 and later)
- History 2702, 2711
- Horticulture and Crop Science 2204
- Philosophy 2340, 2342
- Plant Pathology 4321

4-hour courses:
- Anthropology 3050
- Civil Engineering 3530
- Earth Sciences 3530
- Food, Agriculture, and Biological Engineering 3210 and 3211 (must be taken concurrently to complete the Theme)

Traditions, Cultures and Transformations, 4 or 6 hours

The goal of courses in this theme is to help students analyze “Traditions, Cultures, and Transformations” at a more advanced and in-depth level than in the Foundations component. More specifically:

- Successful students will integrate approaches to understanding lived environments by making connections to out-of-classroom experiences with academic knowledge or across disciplines and/or to work they have done in previous classes and that they anticipate doing in future.
- Successful students will engage in a systematic assessment of how cultures and sub-cultures develop and interact, historically or in contemporary society.
- Successful students will engage in a systematic assessment of differences among societies, institutions, and individuals’ experience within traditions and cultures.

Choose two 3-hour courses from the following list. The two courses must come from different departments.

African American and African Studies 3230 (SP23 and later), 4342 (SP23 and later)
- Anthropology 3452 (SP23 and later)
- History 3227 (SP23 and later), 3229 (SP23 and later), 3245 (SP23 and later)
- Philosophy 3210 (SP23 and later)