To graduate from UH Mānoa, a student must satisfy (a) General Education requirements, (b) requirements of the student’s college or school, and (c) requirements of the student’s specific academic major. (Consulting his or her college/school advising office can help a student select courses that simultaneously satisfy more than one requirement.) This section of the Catalog describes the four components of the UH Mānoa General Education requirements:

1. **Foundations Requirements:** 12 credits
   - Written Communication (FW*; 3 credits)
   - Symbolic Reasoning (FS*; 3 credits)
   - Global and Multicultural Perspectives (FGA*, FGB*, FGC*; 6 credits)

2. **Diversification Requirements:** 18 credits
   - Arts, Humanities, and Literatures (a total of 6 credits from 2 areas)
     - Arts (DA*)
     - Humanities (DH*)
     - Literatures (DL*)
   - Social Sciences (DS*; a total of 6 credits from 2 different departments)
   - Natural Sciences (3 credits biological science, 3 credits physical science, 1 credit science lab)
     - Biological Science (DB*)
     - Physical Science (DP*)
     - Laboratory (science) (DY*)

3. **Focus Requirements:**
   - Contemporary Ethical Issues (E or ETH**; 1 course, 300- or 400-level)
   - Hawaiian, Asian, and Pacific Issues (H or HAP**; 1 course, any level)
   - Oral Communication (O or OC**; 1 course, 300- or 400-level)
   - Writing Intensive (W or WI**; 5 courses, at least two of which are at the 300- or 400-level)

4. **Hawaiian or Second Language (HSL*; competence at the 202 level)***

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* These abbreviations appear after course descriptions to identify courses that meet specific requirements. See the “Courses” section in the back of this Catalog to view course descriptions.

** The STAR Degree Check indicates Focus classes by “E,” “H,” “O,” and “W.” Check “Class Availability” at www.sis.hawaii.edu/uhdad/avail.

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college level; courses give instruction in composing processes, search strategies, and composing from sources. Courses also provide students with experiences in the library and on the internet and enhance their skills in accessing and using various types of primary and secondary materials.

FW Courses
- ENG 100, 100A Composition I
- ENG 190 Composition for Transfer Students to UH Mānoa
- ESL 100 Composition I for Second Language Writers

To enroll in a course that meets the Written Communication requirement, students must first determine their course eligibility by visiting www.manoa.hawaii.edu/mwp. Non-native speakers of English should visit www.hawaii.edu/eli or contact the English Language Institute at (808) 956-8610, uhmeli@hawaii.edu.

Students can satisfy the FW requirement by earning specified Advanced Placement examination scores. (See www.manoa.hawaii.edu/admissions/undergrad/pdf/AP.pdf for details.) Students may also be able to satisfy this requirement through submission of a collection of writing. For eligibility criteria and other information, visit www.manoa.hawaii.edu/mwp or contact the General Education Office at (808) 956-6660, gened@hawaii.edu.

Symbolic Reasoning (FS): 3 credits

Symbolic Reasoning courses expose students to the beauty and power of formal systems, as well as to their clarity and precision; courses do not focus solely on computational skills. Students learn the concept of proof as a chain of inferences. They learn to apply formal rules or algorithms, engage in hypothetical reasoning, and traverse a bridge between theory and practice. In addition, students develop the ability to use appropriate symbolic techniques in the context of problem solving and to present and critically evaluate evidence.

FS Courses
- BUS 250* Applied Math in Business
- ICS 141 Discrete Mathematics for Computer Science I
- ICS 241* Discrete Mathematics for Computer Science II
- MATH 100 Survey of Mathematics
- MATH 112* Math for Elementary Teachers II
- MATH 140** Precalculus: Trigonometry and Analytic Geometry
- MATH 161 Precalculus and Elements of Calculus for Economics and the Social Sciences
- MATH 203** Calculus for Business and Social Sciences
- MATH 215** Applied Calculus I
- MATH 241** Calculus I
- MATH 251A** Accelerated Calculus I
- NREM 203 Applied Calculus for Management, Life Sciences, and Human Resources
- PHIL 110, 110A Introduction to Deductive Logic
- PHIL 111 Introduction to Inductive Logic

Global and Multicultural Perspectives (FG): 2 courses, 6 credits

Global and Multicultural Perspectives courses provide thematic treatments of global processes and cross-cultural interactions from a variety of perspectives. Students will gain a sense of human development from prehistory to modern times through consideration of narratives and artifacts from diverse cultures. At least one component of each of these courses will involve the indigenous cultures of Hawai‘i, the Pacific, or Asia.

FG Courses

To satisfy this requirement, students must take a total of six credits; the six credits must come from two different groups.

Group A (courses marked FGA in this Catalog and online cover the time period prehistory to 1500)
- ANTH 151, 151A Emerging Humanity
- ART 175 Survey of Global Art I
- HIST 151 World History to 1500
- HIST 161A World Cultures in Perspective
- LLEA 151 World Myth to 1500 C.E.
- OCN 105 Sustainability in a Changing World
- WS 175 History of Gender, Sex, and Sexuality in Global Perspectives to 1500 CE

Group B (FGB; courses cover the time period 1500 to modern times)
- AMST 150 America and the World
- ANTH 152, 152A Culture and Humanity
- ART 176, 176A Survey of Global Art II
- FSHN 141 Culture and Cuisine: The Global Diversity of Food
- GEOG 102 World Regional Geography
- HAW 100 Language in Hawai‘i: A Microcosm of Global Language Issues
- HIST 152 World History since 1500
- HIST 162A World Cultures in Perspective

General Education Goals

UH Mānoa provides an environment in which both faculty and students can discover, examine, preserve, and transmit the knowledge, wisdom, and values that will enrich present and future generations. UH Mānoa’s special and global distinction is found in its Hawaiian, Asian, and Pacific orientation. The academic program structure and research enterprise take special advantage of Hawai‘i’s unique environment.

General Education at UH Mānoa involves a flexible and diverse multi-disciplinary curriculum. The General Education requirements foster a deeper appreciation of the complexities and potentialities of the human experience from the perspectives of the arts, humanities, and the natural and social sciences. They also encourage an understanding of imagination and creativity through the application of abstract and intuitive thinking. Upon graduation, students will be able to:

- Appreciate the values and ideas of cultures as they have evolved and as they find expression in literature, history, philosophy, religion, art, and music;
- Reason and analyze effectively;
- Communicate clearly and effectively in Standard English;
- Know the aims and methods of science;
- Recognize the ways in which individuals and social institutions organize and shape behavior.

* Has a prerequisite.
** Requires placement by Math Department’s Precalculus Assessment; visit www.math.hawaii.edu.
General Education Core and Graduation Requirements

“DP,” and one credit of Science Laboratory “DY.” in Biological Sciences “DB,” three credits in Physical Sciences “DA,” Humanities “DH,” and Literatures “DL.”

satisfy more than one requirement?” table on the next page.)

Focus and/or major requirements. (See the “Can a single course satisfy Diversification requirements may also simultaneously satisfy for which they meet course prerequisites. Some courses that satisfy Diversification requirements may also simultaneously satisfy Focus and/or major requirements. (See the “Can a single course satisfy more than one requirement?” table on the next page.)

For Non-UH System Transfer Students Only

Students who transfer from a non-UH System school with one or more western civilization courses will be required to take only three credits of Global and Multicultural Perspectives. If the course or courses that they have taken are time period specific, the credits that they take at UH Mānoa must cover a different time period.

2. Diversification Requirements: 19 credits

The Diversification requirements are intended to assure that every student has exposure to different domains of academic knowledge, while at the same time allowing flexibility in choice of courses for students with different goals and interests.

Students can complete the Diversification requirements over the full four years of their academic program. Students may satisfy the Diversification requirements by taking approved courses for which they meet course prerequisites. Some courses that satisfy Diversification requirements may also simultaneously satisfy Focus and/or major requirements. (See the “Can a single course satisfy more than one requirement?” table on the next page.)

Arts, Humanities, and Literatures (DA, DH, DL): 6 credits

To satisfy this requirement, students must take six credits; the six credits must include two of the three different areas: Arts “DA,” Humanities “DH,” and Literatures “DL.”

Natural Sciences (DB, DP, DY): 7 credits

To satisfy this requirement, students must take three credits in Biological Sciences “DB,” three credits in Physical Sciences “DP,” and one credit of Science Laboratory “DY.”

Please Note:

Additional courses that satisfy General Education Core requirements may have been approved after the publication of this Catalog. Check “Class Availability” online for the most up-to-date information. All students should be aware that UH Mānoa’s individual schools/colleges (a) may have additional program requirements and (b) may require specific General Education courses to meet their program requirements. Consult your college/school advisor. (See p. 31 for contact information.)

Social Sciences (DS): 6 credits

To satisfy this requirement, students must take a total of six credits from two different departments.*

Diversification Courses

Diversification courses are identified in this Catalog on pp. 366-515 with the following letters after the course description:

DA = Arts
DB = Biological Sciences
DH = Humanities
DL = Literatures
DP = Physical Sciences
DS = Social Sciences
DY = Laboratory (science)

3. Focus Requirements

The Focus requirements identify important additional skills and knowledge necessary for living and working in diverse communities. Courses fulfilling Focus requirements are offered in departments across the curriculum and vary each semester. To meet a Focus requirement, a course must have an official UH Mānoa Focus designation during the semester in which it is taken. Courses taken outside the UH System cannot be used to fulfill Focus requirements. Instead, non-UH System transfer students’ Focus requirements are adjusted according to the number of credit hours awarded by UH Mānoa for non-UH System courses. (See next page.)

Hawaiian, Asian, and Pacific Issues (H or HAP): 1 course, any level

These courses focus on issues in Hawaiian and Asian or Pacific cultures and history; they promote cross-cultural understanding between nations and cultures.

Contemporary Ethical Issues (E or ETH): 1 course, 300- or 400-level

These courses involve significant readings on, and discussion of, contemporary ethical issues; they give students tools for the development of responsible ethical judgments.

Oral Communication (O or OC): 1 course, 300- or 400-level

These courses provide students with training in oral delivery and give them the opportunity to do individual and/or group oral reports.

Writing Intensive (W or WI): 5 courses, including at least two at the 300- or 400-level

These courses collectively help students both to learn course content and to communicate through writing. Small writing-intensive classes, in which instructors work with students on writing related to course topics, are offered in nearly all departments.

Note: Students are strongly encouraged to satisfy the Foundations-Written Communication (FW) requirement before they enroll in writing-intensive courses.

Focus Courses

Focus courses change each semester. Therefore, Focus designations are not shown in this Catalog, but appear each semes-

*Some departments have multiple course alphas. Students who take their two DS courses from the same department but with different course alphas are considered to have fulfilled the DS requirement. For example, the Family and Consumer Sciences Department offers two course alphas: Family Resources (FAMR) and Fashion Design and Merchandising (FDM). A student who takes FAMR 230 and FDM 200 is considered to have fulfilled the DS requirement.
ter on Class Availability at www.sis.hawaii.edu/uhdad/avail. classes?i=MAN. Focus designations are indicated in the GenEd/ Focus column as ETH, HAP, OC, and/or WI.

Focus Requirements for Students with Non-UH System Credits

Students who transfer credits from a non-UH System institution may have adjusted (“prorated”) Focus requirements. The adjustment is based on the number of non-UH System transfer credit hours accepted when a student is admitted to UH Mānoa.

Therefore, non-UH System credits completed while an active UH Mānoa student are not included in proration (summer courses, Study Abroad, National Student Exchange, etc.).

Focus Requirements for UH System Transfer Students

Students who enter the UH System in Fall 2011 and thereafter must meet all of the Focus requirements. Students who entered the UH System from Spring 2005 through Spring 2011 must meet requirements given in the following table. Students who entered UH prior to Spring 2005 should check with a UH Mānoa college/school advisor to determine their Focus requirements. Depending on the number of UH transfer credit hours accepted, E and O requirements for transfer students may be reduced. The W and H requirements are not affected, since students may transfer approved UH System courses to help them satisfy the W and H Focus requirements.

Focus Requirement

<table>
<thead>
<tr>
<th>Number of accepted UH credit hours:</th>
<th>W</th>
<th>H</th>
<th>E</th>
<th>O</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-36</td>
<td>5*</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>37-54</td>
<td>4*</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>55-88</td>
<td>3*</td>
<td>1</td>
<td>1-E</td>
<td>1-O</td>
</tr>
<tr>
<td>89+</td>
<td>2*</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

*At least two “W” courses must be at the 300- or 400- level.

Exemption from a Focus Requirement

Students who have engaged in one or more extraordinary educational experiences that took place outside of the ordinary university curriculum may request exemption from up to three Focus requirements that are directly related to the educational experience(s). To earn exemption, students must demonstrate to the General Education Committee that the experience(s) fulfilled the goals of the requested Focus area(s). Approved exemptions reduce the number of courses required for the approved Focus area(s); however, they do not reduce the total number of credit hours needed to graduate. Students are limited to three exemptions. Restrictions apply. For more information, consult a college/school academic advisor or visit www.hawaii.edu/gened/focus_exemption.htm.

4. Hawaiian or Second Language Requirement

Knowledge of a second language encourages deeper awareness of the structure of language and its relation to thought. It develops sensitivity to other ways of ordering personal experience and social institutions, provides a direct way of comparing another culture to one’s own, and provides insight into the workings of one’s native language.

Before graduation, students must show competence at the 202 (or equivalent) level in Hawaiian or a second language by doing one of the following:

a. Completing a four-semester sequence (usually 101, 102, 201, and 202) in a single language.

b. Demonstrating competence by taking a UH Mānoa language-competency exam if one is offered. Check with the language department in question.

c. Receiving a language-requirement waiver by demonstrating 202-level second language competency. For example, waivers may be given to students who are native speakers of a language other than English. Contact an academic advisor in your college for further information.

Important Note: The Hawaiian or Second Language requirement has been modified or waived for students in the following schools and colleges: Shidler College of Business; College of Education; College of Engineering; John A. Burns School of Medicine; School of Nursing and Dental Hygiene; School of Ocean and Earth Science and Technology; Myron B. Thompson School of Social Work; College of Tropical Ag-
Academic Planning: Tips for New Students

UH Mānoa has a wide range of fields, majors, and courses from which to choose and build a dynamic and satisfying academic program. Here are some tips to help students get started:

- **Contact an advisor.** Assistance in planning an academic program is available. Resources include:
  - New Student Orientation and Fall Extended Orientation workshops, (808) 956-3667, www.hawaii.edu/nso;
  - College/school and major advisors. (See contact information at the end of this section.)

- **Explore different academic areas.** Most freshmen are exploring possible majors during their first year. These students may select General Education Foundations and Diversification courses that allow them to sample different fields, which can help in deciding on a major. See pp. 26-27 for a list of Foundations courses; see the “Courses” section of this Catalog to find courses with a Diversification designation. The “Courses” section also lists course prerequisites.

- **Plan ahead.** Majors and colleges/schools may have requirements that should be met in the first year. Once students decide on a major, they should find out what particular courses are required for the major and also by the college/school in which the major is located. (Program requirements and four-year academic plans for all undergraduate majors can be found at manoa.hawaii.edu/ovcma/programsheets.) Students who have not yet decided on a major should become familiar with potential majors and with their college/school requirements in order to take recommended courses when possible.

- **Enhance educational experience through special opportunities.** Consider participating in one of the following:
  - First-Year Programs, (808) 956-8626, manoa.hawaii.edu/undergrad/freshman/;
  - Honors Program, (808) 956-8391, manoa.hawaii.edu/undergrad/honors/;
  - Student Life and Development, (808) 956-8178, manoa.hawaii.edu/studentlife/;
  - A research project or internship (see major department);
  - Service Learning, (808) 956-4641, manoa.hawaii.edu/undergrad/servicelearn/;
  - National Student Exchange, (808) 956-6772, www2.hawaii.edu/~nse/; and

**Transfer Students**

Transfer students should contact an advisor as soon as possible. An advisor can often help a transfer student make choices that will help the student make steady progress toward graduation. Students with a major should contact an advisor from the college or school in which the major is located; students who have not yet chosen a major should contact the Mānoa Advising Center. (See list of advising offices on the next page.)

Many requirements, including General Education Foundations, Diversification, and Hawaiian or Second Language requirements, may be met by transferring articulated courses from other campuses. Students can check the Office of the Registrar website: manoa.hawaii.edu/admissions/undergrad/transfer.html for more information.

**Important:** Transfer students should consult the UH Mānoa college/school advising office for their major to find out about their major’s requirements and about recommended General Education course choices.
## Undergraduate Advising Offices

<table>
<thead>
<tr>
<th>College/School and Website</th>
<th>Location</th>
<th>Contact</th>
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<tbody>
<tr>
<td>School of Architecture, <a href="http://www.arch.hawaii.edu">www.arch.hawaii.edu</a></td>
<td>Architecture 202</td>
<td>(808) 956-7225</td>
</tr>
<tr>
<td>Colleges of Arts and Sciences (declared majors), <a href="http://www.advising.hawaii.edu/artsci/">www.advising.hawaii.edu/artsci/</a></td>
<td>QLCSS 113</td>
<td>(808) 956-8755</td>
</tr>
<tr>
<td>College of Social Sciences, <a href="http://www.advising.hawaii.edu/artsci/">www.advising.hawaii.edu/artsci/</a></td>
<td>QLCS 113</td>
<td>(808) 956-8755</td>
</tr>
<tr>
<td>Shidler College of Business, <a href="http://www.shidler.hawaii.edu/undergraduate/advising">www.shidler.hawaii.edu/undergraduate/advising</a></td>
<td>Business Admin 101</td>
<td>(808) 956-8215</td>
</tr>
<tr>
<td>College of Education, coe.hawaii.edu/admissions-advising/advising-osas</td>
<td>Everly Hall 126</td>
<td>(808) 956-7849</td>
</tr>
<tr>
<td>College of Engineering,</td>
<td>Holmes 250</td>
<td>(808) 956-8404</td>
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<tr>
<td><a href="http://www.eng.hawaii.edu/current-students/undergraduate-students/advisement-academic-services/">www.eng.hawaii.edu/current-students/undergraduate-students/advisement-academic-services/</a></td>
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<td>Hawai’i’u Hula School of Hawaian Knowledge, manoa.hawaii.edu/nhhs/</td>
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<td>Hawaiian Studies</td>
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<td>Kawaihuelani Center for Hawaiian Language</td>
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<td>Honors, manoa.hawaii.edu/undergrad/honors</td>
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<td>RAPS Advising Office, <a href="http://www.hawaii.edu/raps">www.hawaii.edu/raps</a></td>
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<td>Mānoa Advising Center (general Arts &amp; Sciences students and pre-majors),</td>
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<td>manoa.hawaii.edu/undergrad/mac/</td>
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<td>John A. Burns School of Medicine</td>
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<td>Public Health, <a href="http://www">www</a>. manoa.hawaii.edu/publichealth/admissions/</td>
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<td>School of Nursing and Dental Hygiene,</td>
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<td>School of Pacific and Asian Studies, manoa.hawaii.edu/spas/</td>
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<td>Pre-Health/Pre-Law Advising Center, <a href="http://www.manoa.hawaii.edu/undergrad/PAC/">www.manoa.hawaii.edu/undergrad/PAC/</a></td>
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<td>Student-Athlete Academics Services, manoa.hawaii.edu/undergrad/SAAS/</td>
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<td>Student Support Services, manoa.hawaii.edu/undergrad/sss/</td>
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<td>College of Tropical Agriculture &amp; Human Resources, <a href="http://www.ctahr.hawaii.edu/site/undergrad.aspx">www.ctahr.hawaii.edu/site/undergrad.aspx</a></td>
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