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 UH Mānoa General Education requirements:

1. Foundations
2. Diversification
3. Focus
4. Hawaiian or Second Language

Foundations and Diversification together are UH Mānoa Core requirements. Focus and Hawaiian or Second Language together are UH Mānoa Special Graduation requirements.

Students who transfer to UH Mānoa having completed the Foundations/Basic requirements at another UH system school are considered to have fulfilled UH Mānoa Foundations requirements. Students who transfer to UH Mānoa having completed the Diversification/Area requirements at another UH system school are considered to have fulfilled the UH Mānoa Core (Foundations and Diversification) requirements.

A grade of D (not D-) or higher is required for a course to fulfill General Education requirements. The Credit/No Credit option is not allowed for any course taken to fulfill a General Education requirement, with the exception of those courses offered only for CR/NC. (See “Grades” on p. 15 of the Catalog for additional information.)

1. Foundations Requirements: 12 credits

The Foundations requirements are intended to give students skills and perspectives that are fundamental to undertaking higher education. Students complete the Foundations requirements during their first year at UH Mānoa. Courses taken to fulfill the Foundations requirements may not be used to fulfill Diversification or Focus requirements.

### General Education Overview

**UH Mānoa Core Requirements**

1. **Foundations Requirements** ......................... p. 25
   - Written Communication (FW*; 3 credits)
   - Symbolic Reasoning (FS*; 3 credits)
   - Global and Multicultural Perspectives (FGA, FGB, FGC*; 6 credits)

2. **Diversification Requirements** ......................... p. 27
   - Arts, Humanities, and Literatures (6 credits from 2 categories)
     - Arts (DA*)
     - Humanities (DH*)
     - Literatures (DL*)
   - Social Sciences (DS*; 6 credits)
   - Natural Sciences (3 credits biological science, 3 credits physical science, 1 credit science lab)
     - Biological Science (DB* )
     - Physical Science (DP*)
     - Laboratory (science) (DY*)

**UH Mānoa Special Graduation Requirements**

3. **Focus Requirements** ................................. p. 27
   - Hawaiian, Asian, & Pacific Issues (H or HAP**; 1 course, any level)
   - Contemporary Ethical Issues (E or ETH**; 1 course, 300- or 400-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)** ................................. p. 28

(Some colleges/schools have waived or modified this requirement. Consult your college/school advisor.)

---

* 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.
Written Communication (FW): 3 credits

Written Communication courses introduce students to the rhetorical, conceptual, and stylistic demands of writing at the 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
- ELI 100 Expository Writing: A Guided Approach

To enroll in a course that meets the Written Communication requirement, students must first determine their course eligibility by visiting www.mwp.hawaii.edu. 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.mwp.hawaii.edu 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
- MATH 161 Precalculus and Elements of Calculus for Economics and the Social Sciences
- MATH 203 Calculus for Business and Social Sciences
- MATH 215 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

* Has a prerequisite.
** Requires placement by Math Department’s Precalculus Assessment; visit www.math.hawaii.edu.

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; courses 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
- 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 Survey of Global Art II
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 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.”

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. 364-510 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 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 are not shown in this Catalog, but appear in each semester’s Registration Guide (as H, E, O, and W) and on the UH Mānoa Registration Homepage (as HAP, ETH, OC, and WI). Because the approved Focus courses change each semester, students should consult the UH Mānoa Registration Homepage’s up-to-date online course listing each semester before they register.

**Focus Requirements for Students with Non-UH System Credits**

Students who transfer credits from a non-UH System institution may have adjusted (“pro-rated”) 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 Requirement**

<table>
<thead>
<tr>
<th>Number of accepted non-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 or 1-O</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 numbered at the 300- or 400-level.

**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 table below. 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.

**Exemption from a Focus Requirement**

Students who have engaged in an extraordinary educational experience that took place outside of the ordinary university curriculum may request a one-course exemption from a Focus requirement that is directly related to that educational experience. To request an exemption, students must demonstrate to the General Education Committee that the experience fulfilled the goals of the Focus area. If approved, the exemption reduces the number of courses required for the appropriate Focus requirement; however, it does not reduce the total number of credit hours needed to graduate. Students are limited to one exemption. Restrictions apply. For information, students should consult a college/school academic advisor and 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 experiences 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 the Associate Dean of the College of Languages, Linguistics, and Literature for details.

**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 Agriculture and Human Resources. (See [www.hawaii.edu/gened/hsl.htm](http://www.hawaii.edu/gened/hsl.htm) for additional information.) Students in these colleges/schools should consult a college/school advisor.

**Students should be aware that changing their major may involve a change in their college/school and thus change their Hawaiian or Second Language requirement.** A list of majors and their respective colleges/schools can be found on p. 30.

**Credits for Previous Language Experience**

All students under the current General Education requirements with experience in a language other than English (including native speakers) may earn “back credits.” These students may take any UH Mānoa course appropriate to their level of proficiency in which there is significant use of that language. (Appropriate level is determined by a placement exam or an advisor; significant use is determined by the course content.) Upon completion of this course, students will receive between 3 and 16 back credits if they earn a letter grade of C (not C-) or better. (The course must be the *first* Hawaiian or second language course taken since high school and it must be taken for a letter grade, not CR/NC.) Back credits may be earned for only one language. Other restrictions apply. Check with the appropriate language department for details and forms. Information is also available at [www.hawaii.edu/gened/hsl.htm](http://www.hawaii.edu/gened/hsl.htm).

**Languages in which a Four-semester Sequence is Offered**

Arabic, Cambodian, Chamorro, Filipino, French, German, Greek, Hawaiian, Hindi/Urdu, Ilokano, Indonesian, Italian, Japanese, Korean, Latin, Mandarin, Maori, Portuguese, Russian, Samoan, Sanskrit, Spanish, Tahitian, Thai, Tongan, Vietnamese.

Some language courses are not offered regularly, and this is noted in the course description section of this Catalog.

American Sign Language also fulfills the language requirement. Courses in American Sign Language are not offered at UH Mānoa, but the campus will consider students who complete American Sign Language to the second level of study as having met UH Mānoa’s Hawaiian or Second Language requirement.

**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](http://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. 25-27 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/ovcaa/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, [www.manoa.hawaii.edu/freshman/](http://www.manoa.hawaii.edu/freshman/);
  - Honors Program, (808) 956-8391, [www.honors.hawaii.edu](http://www.honors.hawaii.edu);
  - Student Life and Development (formerly Co-curricular Activities, Programs and Services), (808) 956-8178, [www.hawaii.edu/caps](http://www.hawaii.edu/caps);
  - A research project or internship (see major department);
  - Service Learning, (808) 956-4641, [www.hawaii.edu/servicelearning](http://www.hawaii.edu/servicelearning);
  - National Student Exchange, (808) 956-6772, [www2.hawaii.edu/~nse/](http://www2.hawaii.edu/~nse/); and
Undergraduate Advising Offices

<table>
<thead>
<tr>
<th>College/School and Website</th>
<th>Location</th>
<th>Contact</th>
</tr>
</thead>
<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>Shidler College of Business, <a href="http://www.shidler.hawaii.edu">www.shidler.hawaii.edu</a></td>
<td>Business Administration B101</td>
<td>(808) 956-8215</td>
</tr>
<tr>
<td>College of Education, <a href="http://www.coe.hawaii.edu/admissions/initial/advising">www.coe.hawaii.edu/admissions/initial/advising</a></td>
<td>Everly Hall 126</td>
<td>(808) 956-7849</td>
</tr>
<tr>
<td>College of Engineering, <a href="http://www.eng.hawaii.edu/current-students/undergraduate-students/advising/advising">www.eng.hawaii.edu/current-students/undergraduate-students/advising/advising</a></td>
<td>Holmes 250</td>
<td>(808) 956-8404</td>
</tr>
<tr>
<td>Hawai‘inui‘kea School of Hawaiian Knowledge, manoa.hawaii.edu/hshk Hawaiian Studies</td>
<td>Kamakakūokalani 211A</td>
<td>(808) 973-0979</td>
</tr>
<tr>
<td>Kawaihueilan Center for Hawaiian Language</td>
<td>Spalding 253</td>
<td>(808) 956-7637</td>
</tr>
<tr>
<td>Honors and RAPS Advising Office, <a href="http://www.honors.hawaii.edu">www.honors.hawaii.edu</a></td>
<td>Sinclair Library 128</td>
<td>(808) 956-8391</td>
</tr>
<tr>
<td>Mānoa Advising Center (general Arts &amp; Sciences students and pre-majors), manoa.hawaii.edu/mac</td>
<td>QLCSS 101</td>
<td><a href="mailto:macadv@hawaii.edu">macadv@hawaii.edu</a></td>
</tr>
<tr>
<td>John A. Burns School of Medicine, <a href="http://www.jabsom.hawaii.edu/JABSOM/admissions/undergrad.php">www.jabsom.hawaii.edu/JABSOM/admissions/undergrad.php</a></td>
<td>Communication Sciences and Disorders</td>
<td>1410 Lower Campus Drive</td>
</tr>
<tr>
<td>Medical Technology</td>
<td>Biomed C206</td>
<td>(808) 956-8557</td>
</tr>
<tr>
<td>School of Nursing and Dental Hygiene, <a href="http://www.nursing.hawaii.edu/current-students/OSSmain.html">www.nursing.hawaii.edu/current-students/OSSmain.html</a></td>
<td>Dental Hygiene</td>
<td>Hemenway 200B</td>
</tr>
<tr>
<td>Nursing</td>
<td>Webster 201</td>
<td>(808) 956-8939</td>
</tr>
<tr>
<td>Outreach College, <a href="http://www.outreach.hawaii.edu/">www.outreach.hawaii.edu/</a></td>
<td>Outreach College</td>
<td>BioMed T120</td>
</tr>
<tr>
<td>Nagatani Academic Center</td>
<td>Krauss 101</td>
<td>(808) 956-8402</td>
</tr>
<tr>
<td>School of Travel Industry Management, <a href="http://www.tim.hawaii.edu">www.tim.hawaii.edu</a></td>
<td>George 346</td>
<td>(808) 956-8946</td>
</tr>
<tr>
<td>College of Tropical Agriculture &amp; Human Resources, <a href="http://www.ctahr.hawaii.edu/ctahr">www.ctahr.hawaii.edu/ctahr</a></td>
<td>Gilmore 210</td>
<td>(808) 956-8183</td>
</tr>
</tbody>
</table>

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 above.)

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 Admissions and Records Transfer Credit Search website, www.hawaii.edu/admrec/transfer, for information about courses taken at other colleges and universities.

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.