



## COURSES

This listing describes the large range of courses available. Please note that this list of courses changes due to the dynamic nature of academic disciplines.

Each semester, the courses available are listed in the *Check Class Availability* website at [www.sis.hawaii.edu/uhdad/avail.classes?i=MAN](http://www.sis.hawaii.edu/uhdad/avail.classes?i=MAN). Summer classes are listed in the *Summer Session Catalog/MyUH Portal*.

The course headings are abbreviated and include a two- to four-letter department code, course number (including alpha suffix, if applicable), title, level, credits, description, repeatability, major restrictions, grade option, prerequisites, co-requisites, frequency, cross-listings, and core designation. For further clarification, please refer to the sample course description.

### Sample Course Description

**ABCD 123 Introduction to Courses (3) (2 Lec, 1 3-hr Lab)** This sample describes an introductory course. Open to nonmajors if space available. Repeatable one time. CR/NC only. Pre: 122, HIST 101 and COMG 188 (or concurrent); or consent. Co-requisite: 123L. (Cross-listed as DCBA 123) **DA**

**Course number** (ie. **123**) reflects course level (see “Course Numbering System” below). An “A” following the number designates a Selected Studies (honors) section. An “L” following the number designates a laboratory course that is companion to a lecture course bearing the same number. All other suffixes (“B–K,” “M–U,” and “W–Z”) mark separate sections of an “Alpha” course, each having a distinctive content that a student may earn credit toward the degree for each section taken.

**Course titles** will be entered exactly as they appear on UHM forms, so it is important to use appropriate punctuation and capitalization. Diacritical and other punctuation marks that are not included on a keyboard are not available in the online *Catalog*. Two or more courses within the same subject should not share the same title. An exception is for honors courses and their non-honors counterparts. The word “online” should not be included in a course title to indicate that the course is offered via the internet.

**Roman numerals (I, II)** indicate the level of a course in a sequence, e.g., Calculus II is a more advanced course following an introductory-level course.

**Credit hours** (ie. **(3)**) are shown in parentheses following the course title. Variable credit courses are designated “(V).” Some classes break down the time spent in lecture and laboratory. (e.g., 2 Lec, 1 3-hr Lab)

**Description** includes class size/format (e.g., lecture, discussion, seminar, lab, workshop, studio) and major subjects covered. Other features may include learning experiences (e.g., term papers, guest lecturers).

**Repeatable how many times** indicates that a course may be taken again for additional credit toward a degree.

**Grade option A-F only** indicates that the course is offered only for grade. **CR/NC only** indicates that the course is offered only for credit (CR) or no credit (NC). Credit is given if a student achieves a passing grade. **Satisfactory only** indicates

whether the course is satisfactory or unsatisfactory. **No Grading (NG)** is for graduate courses only.

**Pre:** indicates the **prerequisites necessary** to register for a course, which may include courses, general education designation, class standing, consent of the instructor or instructor approval (consent), or departmental approval. Some prerequisites may be taken concurrently. When a department has a prerequisite common to a large group of courses, that fact is noted in italics preceding these course listings as a blanket statement.

**Co-requisite** indicates that the course must be taken in conjunction with another course.

**Frequency of course** will determine how often the course is offered. (**Fall only**) means that the course is offered only in the fall, (**Spring only**) means the course is offered only in the spring. (**Alt. years**) means that the course is offered only every other year.

**Cross-listed courses** (Cross-listed as ABCD 123) indicates that the course fulfills a requirement in more than one department and specifies the alternate departmental course listing.

**Non-Introductory (NI)** courses are 200-level with an explicitly stated course prerequisite, or 300-level or higher.

**Upper Division Courses** Junior- and senior-level courses, numbered 300–499, which generally have prerequisites.

**General Education designation** (e.g., **DA**) indicates that the course meets a General Education Core requirement. See the key in the right column for designations. Courses that meet the Focus requirement are not designated in the *Catalog*. Focus-designations are in the *Registration Guide*.

### Course Numbering System

#### Undergraduate Courses (1–499)

- 1–99 Courses not applicable for credit toward a bachelor’s degree
- 100–199 Initial or introductory courses
- 200–299 Second-year courses in a sequence or development in a field of study.
- 300–499 Third- and fourth-year courses in a sequence of courses or first courses in professional curricula. May be accepted by Graduate Education to fulfill graduate degree requirements (petition may be required). Courses numbered 300 or above are upper division and count toward the 45 upper division credit requirement.

#### Post-Baccalaureate Courses (500–800)

- 500 Directed Study (master’s Plan B)
- 500–599 Courses applicable toward first professional degrees (architecture, law, and medicine) and in-service training programs in education
- 600–699 Graduate courses
- 700 Thesis Research (master’s Plan A)
- 700–799 Advanced graduate courses
- 800 Dissertation Research

**Special Numbers:** Courses ending in -99 are directed research or directed study. Experimental courses ending in -97 or -98 and single course offerings are **not** listed in the *Catalog*.

## Departments Offering Diversification Courses

Arts - DA	Humanities - DH	Literatures - DL	Social Sciences - DS
<p>Academy for Creative Media (ACM) (1) p. 366</p> <p>Architecture (ARCH) (4) p. 375</p> <p>Art &amp; Art History (ART) (68)* p. 377</p> <p>Asian Studies (ASAN) (1) p. 380</p> <p>Communication (COM) (1) p. 395</p> <p>Communicology (COMG) (2)* p. 397</p> <p>Dance (DNCE) (56)* p. 400</p> <p>English (ENG) (6) p. 411</p> <p>Fashion Design &amp; Merchandising (FDM) (2) p. 417</p> <p>Hawaiian (HAW) (1) p. 427</p> <p>Hawaiian Studies (HWST) (1) p. 428</p> <p>Honors (HON) (4) p. 433</p> <p>Kinesiology &amp; Rehabilitation Science (KRS) (5)* p. 443</p> <p>Music (MUS) (19)* p. 467</p> <p>Theatre (THEA) (53)* p. 503</p> <p>Tropical Plant and Soil Sciences (TPSS) (2) p. 509</p>	<p>Academy for Creative Media (ACM) (2) p. 366</p> <p>American Studies (AMST) (52)* p. 368</p> <p>Anthropology (ANTH) (16)* p. 372</p> <p>Architecture (ARCH) (6)* p. 375</p> <p>Art &amp; Art History (ART) (34)* p. 377</p> <p>Asian Studies (ASAN) (15)* p. 380</p> <p>Chinese (CHN) (5) p. 392</p> <p>Dance (DNCE) (2) p. 400</p> <p>East Asian Languages &amp; Literatures (EALL) (6)* p. 403</p> <p>Economics (ECON) (1) p. 404</p> <p>English (ENG) (5) p. 411</p> <p>Ethnic Studies (ES) (10) p. 414</p> <p>Filipino (FIL) (2) p. 417</p> <p>French (FR) (4) p. 420</p> <p>Geography (GEOG) (1) p. 421</p> <p>German (GER) (5) p. 426</p> <p>Hawaiian (HAW) (9) p. 427</p> <p>Hawaiian Studies (HWST) (2)* p. 428</p> <p>History (HIST) (141)* p. 430</p> <p>Honors (HON) (9) p. 433</p> <p>Ilokano (ILO) (1) p. 435</p> <p>Indo-Pacific Languages (IP) (3) p. 435</p> <p>Indonesian (IND) (1) p. 436</p> <p>Interdisciplinary Studies (IS) (1) p. 441</p> <p>Japanese (JPN) (3) p. 442</p> <p>Korean (KOR) (1) p. 448</p> <p>Languages &amp; Literatures of Europe &amp; the Americas (LLEA) (11)* p. 449</p> <p>Latin American &amp; Iberian Studies (LAIS) (8) p. 451</p> <p>Linguistics (LING) (6)* p. 456</p> <p>Management (MGT) (1) p. 457</p> <p>Music (MUS) (9)* p. 467</p> <p>Pacific Islands Studies (PACS) (2) p. 478</p> <p>Peace Studies (PACE) (6)* p. 479</p> <p>Philosophy (PHIL) (37)* p. 480</p> <p>Political Science (POLS) (3) p. 484</p> <p>Religion (REL) (37)* p. 492</p> <p>Second Language Studies (SLS) (1) p. 494</p> <p>Spanish (SPAN) (4) p. 499</p> <p>Thai (THAI) (2) p. 503</p> <p>Theatre (THEA) (8)* p. 503</p> <p>Tropical Plant &amp; Soil Sciences (TPSS) (1) p. 509</p> <p>Women's Studies (WS) (10) p. 512</p>	<p>American Studies (AMST) (3) p. 368</p> <p>Asian Studies (ASAN) (2) p. 380</p> <p>Chinese (CHN) (1) p. 392</p> <p>East Asian Languages &amp; Literatures (EALL) (15)* p. 403</p> <p>English (ENG) (65)* p. 411</p> <p>Ethnic Studies (ES) (2) p. 414</p> <p>Filipino (FIL) (3) p. 417</p> <p>French (FR) (11) p. 420</p> <p>German (GER) (8) p. 426</p> <p>Greek (GRK) (5) p. 426</p> <p>Hawaiian (HAW) (3)* p. 426</p> <p>Hawaiian Studies (HWST) (2) p. 428</p> <p>Honors (HON) (5) p. 433</p> <p>Indo-Pacific Languages (IP) (12) p. 435</p> <p>Indonesian (IND) (1) p. 436</p> <p>Institute for Teacher Education (ITE) (1) p. 439</p> <p>Japanese (JPN) (3) p. 442</p> <p>Korean (KOR) (2) p. 448</p> <p>Languages &amp; Literatures of Europe &amp; the Americas (LLEA) (16)* p. 449</p> <p>Latin (LATN) (7) p. 450</p> <p>Latin American &amp; Iberian Studies (LAIS) (2) p. 451</p> <p>Maori (MAO) (2) p. 458</p> <p>Pacific Islands Studies (PACS) (2) p. 478</p> <p>Philosophy (PHIL) (1) p. 480</p> <p>Russian (RUS) (5) p. 494</p> <p>Samoa (SAM) (4)* p. 494</p> <p>Spanish (SPAN) (10) p. 499</p> <p>Thai (THAI) (2) p. 503</p> <p>Theatre (THEA) (4) p. 503</p> <p>Vietnamese (VIET) (1) p. 512</p> <p>Women's Studies (WS) (7) p. 512</p>	<p>American Studies (AMST) (12)* p. 368</p> <p>Anthropology (ANTH) (43)* p. 372</p> <p>Architecture (ARCH) (4)* p. 375</p> <p>Asian Studies (ASAN) (12) p. 380</p> <p>Botany (BOT) (1)* p. 386</p> <p>Business (BUS) (1) p. 388</p> <p>Communication (COM) (10)* p. 395</p> <p>Communicology (COMG) (25) p. 397</p> <p>Curriculum Studies (EDCS) (1) p. 398</p> <p>Economics (ECON) (43)* p. 404</p> <p>Ed. Foundations (EDEF) (4) p. 407</p> <p>Ed. Psychology (EDEP) (4) p. 408</p> <p>Ethnic Studies (ES) (24)* p. 414</p> <p>Family Resources (FAMR) (10)* p. 416</p> <p>Fashion Design &amp; Merchandising (FDM) (1)* p. 417</p> <p>Geography (GEOG) (32) p. 421</p> <p>Global Health Protection &amp; Security (GHPS) (5) p. 426</p> <p>Honors (HON) (13) p. 433</p> <p>Human Resources Management (HRM) (1) p. 434</p> <p>Indo-Pacific Languages (IP) (1) p. 435</p> <p>Institute for Teacher Education (ITE) (1) p. 439</p> <p>Interdisciplinary Studies (IS) (3) p. 441</p> <p>Journalism (JOUR) (4)* p. 443</p> <p>Kinesiology &amp; Rehabilitation Sciences (KRS) (2) p. 443</p> <p>Latin American &amp; Iberian Studies (LAIS) (1) p. 451</p> <p>Linguistics (LING) (11)* p. 456</p> <p>Management (MGT) (1) p. 457</p> <p>Marketing (MKT) (2) p. 459</p> <p>Microbiology (MICR) (1) p. 464</p> <p>Molecular Cell Biology (MCB) (1) p. 466</p> <p>Natural Resources &amp; Environmental Mgmt. (NREM) (6)* p. 470</p> <p>Pacific Islands Studies (PACS) (7) p. 478</p> <p>Peace Studies (PACE) (9)* p. 479</p> <p>Political Science (POLS) (60)* p. 484</p> <p>Psychology (PSY) (33)* p. 487</p> <p>Public Health (PH) (1) p. 489</p> <p>Religion (REL) (3) p. 492</p> <p>Second Language Studies (SLS) (4) p. 494</p> <p>Social Sciences (SOCS) (2) p. 495</p> <p>Social Work (SW) (6) p. 496</p> <p>Sociology (SOC) (56)* p. 497</p> <p>Special Education (SPED) (2) p. 500</p> <p>Travel Industry Mgmt. (TIM) (4) p. 506</p> <p>Tropical Plant &amp; Soil Sciences (TPSS) (4) p. 509</p> <p>Urban &amp; Regional Planning (PLAN) (3) p. 510</p> <p>Women's Studies (WS) (36)* p. 512</p>
<p><b>(#) Total number of courses the department offers in this category.</b></p> <p><b>* Departments offering introductory level course(s) in this category.</b></p>			

## General Education Designations

Courses that meet the UH Mānoa General Education Core Requirements are identified with one of the following designations at the end of the course description:

### Biological Sciences - DB

Animal Science (ANSC) (15)\* p. 371  
 Anthropology (ANTH) (6)\* p. 372  
 Biochemistry (BIOC) (2) p. 383  
 Bioengineering (BE) (1) p. 384  
 Biology (BIOL) (25)\* p. 384  
 Botany (BOT) (23)\* p. 386  
 Cell & Molecular Biology (CMB) (2) p. 390  
 Chemistry (CHEM) (1) p. 390  
 Dental Hygiene (DH) (10)\* p. 401  
 Food Science & Human Nutrition (FSHN) (12)\* p. 419  
 Geography (GEOG) (2) p. 421  
 Honors (HON) (2) p. 433  
 Kinesiology & Rehabilitation Science (KRS) (9)\* p. 443  
 Medical Technology (MEDT) (1) p. 464  
 Microbiology (MICR) (9)\* p. 464  
 Molecular Biosciences & Bioengineering (MBBE) (4) p. 466  
 Molecular Cell Biology (MCB) (4) p. 466  
 Natural Resources & Environmental Management (NREM) (4)\* p. 470  
 Oceanography (OCN) (2) p. 476  
 Pharmacology (PHRM) (2)\* p. 480  
 Physiology (PHYL) (11)\* p. 483  
 Plant & Environmental Protection Sciences (PEPS) (11)\* p. 483  
 Psychology (PSY) (4) p. 487  
 Public Health (PH) (1) p. 489  
 Tropical Plant & Soil Sciences (TPSS) (21)\* p. 509  
 Women's Studies (WS) (2) p. 512  
 Zoology (ZOOL) (20)\* p. 514

### Physical Sciences - DP

Astronomy (ASTR) (15)\* p. 381  
 Atmospheric Sciences (ATMO) (9)\* p. 382  
 Biochemistry (BIOC) (2)\* p. 383  
 Bioengineering (BE) (11) p. 383  
 Chemistry (CHEM) (16)\* p. 390  
 Civil & Environmental Engineering (CEE) (15) p. 393  
 Electrical Engineering (EE) (20)\* p. 408  
 Fashion Design & Merchandising (FDM) (2) p. 417  
 Food Science & Human Nutrition (FSHN) (3) p. 419  
 Geography (GEOG) (9)\* p. 421  
 Geology & Geophysics (GG) (29)\* p. 423  
 Honors (HON) (7) p. 433  
 Mechanical Engineering (ME) (26) p. 461  
 Natural Resources & Environmental Management (NREM) (3) p. 470  
 Ocean & Earth Science & Technology (OEST) (1)\* p. 475  
 Ocean & Resources Engineering (ORE) (3)\* p. 475  
 Oceanography (OCN) (9)\* p. 476  
 Physics (PHYS) (21)\* p. 481  
 Tropical Plant & Soil Sciences (TPSS) (1) p. 509

### Laboratory (science) - DY

Animal Science (ANSC) (2) p. 371  
 Anthropology (ANTH) (2)\* p. 372  
 Astronomy (ASTR) (3)\* p. 381  
 Atmospheric Sciences (ATMO) (1)\* p. 382  
 Biochemistry (BIOC) (1) p. 383  
 Bioengineering (BE) (2) p. 384  
 Biology (BIOL) (9)\* p. 384  
 Botany (BOT) (14)\* p. 386  
 Chemistry (CHEM) (12)\* p. 390  
 Civil & Environmental Engineering (CEE) (1) p. 393  
 Dental Hygiene (DH) (5)\* p. 401  
 Electrical Engineering (EE) (4) p. 408  
 Fashion Design & Merchandising (FDM) (1) p. 417  
 Food Science & Human Nutrition (FSHN) (4) p. 419  
 Geography (GEOG) (1)\* p. 421  
 Geology & Geophysics (GG) (9)\* p. 423  
 Honors (HON) (1) p. 433  
 Mechanical Engineering (ME) (2) p. 461  
 Microbiology (MICR) (9)\* p. 464  
 Molecular Bioscience & Bioengineering (MBBE) (2) p. 466  
 Molecular Cell Biology (MCB) (3) p. 466  
 Natural Resources & Environmental Management (NREM) (2) p. 470  
 Oceanography (OCN) (2)\* p. 476  
 Physics (PHYS) (8)\* p. 481  
 Physiology (PHYL) (6)\* p. 483  
 Plant & Environmental Protection Sciences (PEPS) (1) p. 483  
 Tropical Plant & Soil Sciences (TPSS) (3) p. 509  
 Zoology (ZOOL) (12)\* p. 514

### Foundations Requirements

Written Communication .FW  
 Symbolic Reasoning .....FS  
 Global and Multicultural Perspectives .....FG  
**FGA, FGB, FGC** (see p. 27-28)

### Diversification Requirements

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

### UH Mānoa

#### Graduation Requirements

Hawaiian/Second Language  
**HSL**

For more information, see the “Mānoa Undergraduate General Education Requirements” section of this *Catalog*.

### Please Note:

- **Consult your college/school advisor for a list of updated General Education courses. Additional courses may have been approved after the publication of this *Catalog*.**
- **Some programs specify which courses their students must take to fulfill the Core Requirements or to fulfill lower division college/school requirements. For these programs, students should consult an advisor from their department prior to selecting courses.**