

BACHELOR OF SCIENCE (BS) 2014-2015 ARTS & SCIENCES (A&S) PROGRAM REQUIREMENTS

A&S Majors and a Liberal Arts Education

A liberal arts education offers a broad-based and integrated perspective on the world and human experiences; better self-understanding; societal, civic, and global knowledge; an independent and inquiring mind; a desire and capacity for life-long learning; and valuable transferable skills.

Student Learning Outcomes

Colleges of Arts and Sciences Student Academic Services learning outcomes for A&S majors:

1. Students can develop and implement an academic and educational plan.
2. Throughout their academic career, students can identify and explain their interests, strengths, values, and career/life goals.
3. Students understand how the A&S degree prepares them for success in their personal, academic, and professional lives.

This program requirements sheet is intended to assist you in selecting courses that fulfill UHM General Education (Core and Graduation) requirements and A&S requirements. It is not a substitute for meeting with an A&S advisor and your major advisor. For information on scheduling an appointment with an A&S advisor visit: www.advising.hawaii.edu/artsci.

Freshmen and sophomores:

- Mandatory advising at least once a semester

Juniors and seniors:

- Meet with your advisors at least once a year
- Interested in long-term academic planning?
 - Do a JUMP session online and follow up with an A&S advisor.
For more information visit: www.advising.hawaii.edu/artsci/pages/JUMP/express.asp.
- Apply for graduation 2 semesters prior to your semester of graduation
 - The Online GRAD is **mandatory** for A&S seniors.
For more information visit: www.advising.hawaii.edu/artsci/OnlineGrad.
 - Commencement ceremony: To have your name in the printed program, your graduation papers must be reviewed by an A&S advisor and filed by the deadline published in the academic calendar:
manoa.hawaii.edu/records/calendar/index.html.

The UHM Catalog at www.catalog.hawaii.edu is a comprehensive guide to UHM program requirements and other information of general importance to students. Before selecting classes, review course descriptions for prerequisites, credit hours, and other relevant information.

Coursework required for natural sciences majors is sequential in nature. This means that certain prerequisite courses need to be completed before you can continue to the next level. This is especially true for BS degree students. It is important that you start your major courses as a freshman to graduate in a timely manner. **You must complete placement/assessment examinations** or meet other requirements to register for chemistry, math, physics, and biology courses. It is highly recommended that you take the examinations in time for registration. For more information, visit: www.advising.hawaii.edu/artsci/NatSci/naturalsciences.asp.

A&S Grade Requirements

All courses used to fulfill requirements must be taken with the letter grade (A-F) option, unless the course is designated mandatory Credit/No Credit. Credit/No Credit option is limited to elective courses only.

A&S Program Requirements: "D" grade (not D-) or higher in each course.

Major/Minor/Certificate: "C" grade (not C-) or higher in each course. Some departments have higher grade and GPA requirements.

I. UHM CORE REQUIREMENTS

Foundations Written Communication (FW)

One course from English (ENG) 100, 100A, 190 or English as a Second Language (ESL) 100.
Must be taken in your first year. For more information about fulfilling this requirement visit: www.manoa.hawaii.edu/mwp/students.

Written Communication (FW)

1. _____

Foundations Symbolic Reasoning (FS)

Two courses (Calculus I & II) from Math (MATH) 215, or 241, or 251A and 216, or 242, or 252A.

Should be taken in your first year *Math Department assessment required (www.math.hawaii.edu).

Symbolic Reasoning (FS) Calculus I 1. _____

Symbolic Reasoning (FS) Calculus II 2. _____

Foundations Global & Multicultural Perspectives (FG)

Two courses, each course selected from a different group. (Example: HIST 151 from Group A and ANTH 152 from Group B) *Should be taken in your first year.*

Group A: Anthropology (ANTH) 151, 151A; Art (ART) 175; History (HIST) 151, 161A; Languages & Literature of Europe & the Americas (LLEA) 151; Women's Studies (WS) 175

Group B: American Studies (AMST) 150; Anthropology (ANTH) 152, 152A; Art (ART) 176; Food Science & Human Nutrition (FSHN) 141; Geography (GEOG) 102; Hawaiian (HAW) 100; History (HIST) 152, 162A; Linguistics (LING) 105; Social Science (SOCS) 180; Travel Industry Management (TIM) 102; Women's Studies (WS) 176

Group C: Botany (BOT) 105, 105A; Geography (GEOG) 151, 151A; History (HIST) 156; Languages, Linguistics, & Lit. (LLL) 150; Music (MUS) 107; Religion (REL) 150, 150A

Group A

Group B

Group C

Global & Multicultural Perspectives (FG) 1. _____

Group A

Group B

Group C

Global & Multicultural Perspectives (FG) 2. _____

Diversification Arts, Humanities, & Literatures (DA, DH, DL)

Two courses, each course selected from a different group: Arts/DA*, Humanities/DH, or Literatures/DL.

*Any combination of these courses that totals 3-credits will be considered the equivalent of a one-semester course.

DA

DH

DL

Arts, Humanities, & Literatures 1. _____

DA

DH

DL

Arts, Humanities, & Literatures 2. _____

Diversification Natural Sciences (DB, DP, DY)

One course in the Biological Sciences/DB.

Biological Sciences (DB) 1. _____

Physical Sciences/DP and Labs/DY: a series in both chemistry and physics with associated labs.

Chemistry Series (CHEM): 161-161L & 162-162L or 171-171L or 181A-181L

Chemistry Series 1. _____ **Lab** _____

Chemistry Series 2. _____ **Lab** _____

*Chemistry Department assessment required: www.manoa.hawaii.edu/chem

Physics Series (PHYS): 151-151L & 152-152L or 170-170L & 272-272L

Physics Series 1. _____ **Lab** _____

Physics Series 2. _____ **Lab** _____

Diversification Social Sciences (DS)

Two courses, each course selected from a different department.

Social Sciences (DS) 1. _____

Social Sciences (DS) 2. _____

II. UHM GRADUATION REQUIREMENTS

Hawaiian or Second Language (HSL)

Competence at the 202 (or equivalent) level.

For information on placement exams, refer to the UHM Registration Guide: www.hawaii.edu/myuh/manoa/

1. _____ 3. _____
 2. _____ 4. _____

Focus

Five Writing Intensive (WI) courses, one Hawaiian, Asian and Pacific Issues (HAP) course, one Contemporary Ethical Issues (ETH) course, and one Oral Communication (OC) course. At least two WI courses, the ETH course, and the OC course must be at the 300- or 400-level*.

For more information and Focus class lists visit: www.hawaii.edu/gened/focus.htm.

Focus requirements can also be fulfilled with UH system courses which have the official UHM Focus designation during the semester in which the course is taken. For articulation information visit: www.hawaii.edu/gened/articulation.htm.

Writing Intensive (WI) 1. _____ 2. _____ 3. _____ 4. _____ * 5. _____ *	Hawaiian, Asian & Pacific Issues (HAP) 1. _____ Contemporary Ethical Issues (ETH) 1. _____ * Oral Communication (OC) 1. _____ *
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Prorating Focus Requirements for Non-UH System Transfer Students

If you entered the UH System with:

- 0-36 non-system credits
- 37-54 non-system credits
- 55-88 non-system credits
- 89+ non-system credits

You must take:

- 1 HAP, 1 ETH, 1 OC, and 5 WI
- 1 HAP, 1 ETH, 1 OC, and 4 WI
- 1 HAP, 1 ETH or 1 OC, and 3 WI
- 1 HAP and 2 WI

Credits and GPA

Credit Minimums

**Total Credits	120
Upper-Division (300- or 400-level)	45
In-Residence at UHM	30

A&S Applicable Credit Maximums

Practicum	12
Directed Reading/Research (e.g., x99)	9
KRS Activity	8

Grade Point Average

Minimum Cumulative GPA	2.0
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NOTE : Biochemistry, Biology, Chemistry, and Marine Biology majors must complete either a minimum of 45 upper-division credits, or a combination of no fewer than 25 upper-division and 35 major-required lower-division credits.

**A maximum of 60 non-UH junior or community college credits are applicable.

Requirements That May Be Double-Dipped *

Requirements	Foundations	Diversification	HSL	Focus	Major	Second Major	Minor/Cert	BS (Calc/Chem/Phys)
Foundations		No	No	No	Yes	Yes	No	Yes
Diversification	No		No	Yes	Yes	Yes	No	Yes
HSL	No	No		Yes	No	No	No	No
Focus	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Major	Yes	Yes	No	Yes		No	No	Yes
Second Major	Yes	Yes	No	Yes	No		No	Yes
Minor/Cert	No	No	No	Yes	No	No	No	No
BS (Calc/Chem/Phys)	Yes	Yes	No	Yes	Yes	Yes	No	

* Adapted from UHM Catalog

COLLEGE	UG Deg.	Min.	Cer.	Phone: 956-	COLLEGE	UG Deg.	Min.	Cer.	Phone: 956-
ARTS & HUMANITIES (AH)					LANGUAGES, LINGUISTICS, & LITERATURE (LLL)				
American Studies (AMST)	BA	•		8570	East Asian Lang. & Lit. (EALL)				8940
Art & Art History (ART)	BA, BFA	•		8251	Chinese (CHN)	BA	•	•	
Communicology (COMG)	BA	•		8202	Japanese (JPN)	BA	•	•	
Creative Media (ACM)	BA			7736	Korean (KOR)	BA	•	•	
Dance (DNCE)	BA	•		7677	English (ENG)	BA	•		7619
Dance Theater (DNCE)	BFA				English Language Institute (ELI)				8610
History (HIST)	BA	•		8486	Indo-Pacific Lang. & Lit. (IP)				8672
Music (MUS)	BA, BMus	•	•	7756	Arabic (ARAB)				
Philosophy (PHIL)	BA	•		8649	Cambodian/Khmer (CAM)	BA:IS*		•	
Islamic Studies			•		Chamorro (CHAM)				
Religion (REL)	BA	•		8299	Filipino (FIL)	BA		•	
Theater (THEA)	BA	•		7677	Filipino Lang. & Culture		•		
NATURAL SCIENCES (NS)					Hindi (HNDI) & Urdu (URDU)	BA:IS*		•	
Astronomy (ASTR)				8312	Ilokano (ILO)	BA		•	
Biology (BIOL)	BA, BS	•		8303	Ilokano Lang. & Culture		•		
Marine Biology	BS				Indo-Pacific			•	
Marine Option Program			•	8433	Indonesian (IND)	BA:IS*		•	
Zoology (ZOO)		•		8617	Malay	BA:IS*		•	
Botany (BOT)	BA, BS	•		8369	Maori (MAO)				
Ethnobotany	BS				Persian (PERS)				
Chemistry (CHEM)	BA, BS	•		7480	Philippine Lang. & Lit.	BA			
Biochemistry	BA, BS			7480	Prakrit (PRAK)				
Info. & Comp. Sciences (ICS)	BA			7420	Samoan (SAM)	BA:IS*		•	
Computer Science	BS	•			Sanskrit (SNSK)	BA:IS*		•	
Library & Info. Sciences (LIS)				7321	Tahitian (TAHT)			•	
Mathematics (MATH)	BA, BS	•		4680	Thai (THAI)	BA:IS*		•	
Mathematical Biology			•		Tongan (TONG)				
Microbiology (MICR)	BA, BS	•		8553	Vietnamese (VIET)	BA:IS*		•	
Molecular Cell Biology	BS				Interpret. & Trans. Studies (TI)				
Physics (PHYS)	BA, BS	•		7087	Lang. & Lit. of Eur. & Am. (LLEA)				8520
SOCIAL SCIENCES (SS)					Classics	BA			
Anthropology (ANTH)	BA	•		8415	French (FR)	BA		•	
Communication (COM)	BA			8715	German (GER)	BA		•	
Economics (ECON)	BA	•		8496	Greek (GRK)				
Ethnic Studies (ES)	BA		•	8086	Hebrew (HEB)				
Geography (GEOG)	BA	•		8465	Italian (ITAL)				
Journalism (JOUR)	BA			8881	Latin (LATN)				
Peace Studies (PACE)	BA:IS*		•	6433	Latin Am. & Iberian St. (LAIS)			•	
Political Science (POLS)	BA	•		8357	Portuguese (PORT)				
Law & Society			•		Russian (RUS)	BA			
Psychology (PSY)	BA, BS			8414	Spanish (SPAN)	BA		•	
Public Administration (PUBA)				8260	Linguistics (LING)	BA:IS*			8602
Social Sciences (SOCS)				6570	Second Language Studies (SLS)	BA			8610
Sociology (SOC)	BA	•		7693	English as a Second Language	BA:IS*			
Social Science & Health			•						
Urban & Reg. Plan. (PLAN)				7381					
Women's Studies (WS)	BA		•	7464					

*Students pursuing degree through Interdisciplinary Studies (IS) will receive advising from IS Department advisors. Please call 956-7297 or email isp@hawaii.edu.