

University of Hawaii Maui College
Curriculum Action Request (CAR) Form
Program/Degree/Certificate

For Banner use:	
Req:	Rev:
___ Alpha ___	___
___ Program/name ___	___
___ Program Code ___	___
___ Concentration ___	___
___ Major Code ___	___

- 1. Author(s): Ann Coopersmith
- 2. Department: STEM Program: Associate in Science in Natural Science
- 3. Date submitted to Curriculum Committee: 2 Oct 2011

- 4. Program proposal
 New program (attach program proposal and program map) Change of name to existing program

Existing program Title: Associate in Science in Natural Science
Proposed program Title:

- 5. Credential (degree or certificate) proposal
 New credential added to existing program Modification to existing credential

Type of credential
Degree: AA AS AAS Certificate: CA CC CO ACS
 Other, specify:

Existing credential: Title: Associate in Science in Natural Science Credits: 60
Proposed credential: Title: Credits:

- If modification, describe change:
- Change in credential name
 - Change in course requirement(s); specify:
 - Change in prerequisite(s) for credential; specify:
 - Other; specify: Change in electives

Program map must be attached. (For modifications, write changes on copy of current catalog map.)

- 6. Reason for this curriculum action:
Changes in electives include delete Biology 151L; add Agriculture 265, Biology 152 and 265 (proposed)

- 7. Proposed term of first offering: Fall semester of 2012 year.

- 8. Special fees required: no yes, explain:

- 9. Special resources (personnel, supplies, etc.) required: no yes, explain:

- 10. Special scheduling considerations: no yes, explain:

- 11. Which program SLOs does this certificate support? (list all that apply and explain, if necessary.)
 Program SLO 1: Explain the natural and technological world using reflection and quantitative analysis including preparation of a plan to collect, process, and interpret data; evaluation of the plan, procedures, and findings; and communication of the conclusions; Explain:
 Program SLO 2: Explain scientific knowledge and understanding to different audiences for a range of purposes Explain:
 Program SLO 3: Apply scientific knowledge, skills, and understandings to issues in daily life. Explain:

- 12. Current UHMC Catalog needs revision on page(s): 16



**2012-2013 Associate in Science - Natural Science
 Biological Science Concentration**

(Name: Last, First, Middle Initial)

(UH ID Number)

Graduation Requirements

CREDITS

Minimum Applicable: 60 Credits, 100-level or higher

GRADES

Minimum Cumulative GPA: 2.0

RESIDENCY

Minimum UHMC: 12 credits

WRITING INTENSIVE (WI): Two courses

1 _____

2 _____

Degree Requirements

English (6 credits)

Course Credits Grade Semester Year

ENG 100 (3)

Choose at least one course from the following: ENG 106 (3), ENG 209 (3),
 ENG 210 (3), SP 151 (3), SP 251 (3)

Quantative Reasoning (4 credits)

Course Credits Grade Semester Year

MATH 205 (4)

Humanities Elective (3 credits)

Course Credits Grade Semester Year

Choose at least one course from the following: ART, COM, DANC, DRAM, EALA,
 ENG 250-257, HAW, HWST, HIST, HUM, JPNS, LING, MUS, PHIL, REL, SPAN,
 SP

Natural Science Electives (8 credits)

Course Credits Grade Semester Year

CHEM 161 (3)

CHEM 161L (1)

Electives (4 credits total) Choose from: AG 122, 174, 200; ANTH 215; ASTR; BIOC;
 BIOL; FSHN; GEOG 101, 101L; GG; MICR; OCN 201, 201L; PHYS; SCI; ZOOL

Social Science Electives (3 credits)

Course Credits Grade Semester Year

Choose at least one course from the following: ANTH (*except 215*), BOT 105, ECON, FAMR, GEOG (*except 101, 101L*), POLS, PSY, SSci, SOC

Additional ASNS Requirements (7 credits)

Course Credits Grade Semester Year

CHEM 162 (3)

CHEM 162L (1)

ICS 101 (3) or higher with approval

Biological Concentration Requirements (16-17 credits)

Course Credits Grade Semester Year

BIOL 171 (3)

BIOL 171L (1)

BIOL 172 (3)

BIOL 172L (1)

PHYS 151 (4) or 170 (5)

PHYS 152 (4) or 272 (4)

Biological Concentration Electives (12-13 credits)

Course Credits Grade Semester Year

If not taken for Natural Science Elective or Biological Concentration Requirement, choose from: AG 200 (4), 265 (4); ANTH 210 (3) 210L (1), 215 (3); ASTR 110 (3), 110L (1); BIOC 241 (3), 244 (3); BIOL 105 (4), 124 (3), 124L (1), 151 (3), 152 (3), 200 (4), 225 (4), 226 (5), 265 (3); GEOG 101 (3), 101L (1); GIS 150 (4), 180 (4); MATH 206 (4), 231 (3), 232 (3); MICR 130 (3), 140 (2); OCN 201 (3), 201L (1); PHYS 170 (5), 272 (4); ZOOL 141 (4), 142 (4), 200 (4)



**2012-2013 Associate in Science - Natural Science
 Physical Science Concentration**

(Name: Last, First, Middle Initial)

(UH ID Number)

Graduation Requirements

CREDITS

Minimum Applicable: 60 Credits, 100-level or higher

GRADES

Minimum Cumulative GPA: 2.0

RESIDENCY

Minimum UHMC: 12 credits

WRITING INTENSIVE (WI): Two courses

1 _____

2 _____

Degree Requirements

English (6 credits)

Course Credits Grade Semester Year

ENG 100 (3)

Choose at least one course from the following: ENG 106 (3), ENG 209 (3),
 ENG 210 (3), SP 151 (3), SP 251 (3)

Quantative Reasoning (4 credits)

Course Credits Grade Semester Year

MATH 205 (4)

Humanities Elective (3 credits)

Course Credits Grade Semester Year

Choose at least one course from the following: ART, COM, DANC, DRAM, EALA,
 ENG 250-257, HAW, HWST, HIST, HUM, JPNS, LING, MUS, PHIL, REL, SPAN,
 SP

Natural Science Electives (8 credits)

Course Credits Grade Semester Year

CHEM 161 (3)

CHEM 161L (1)

Electives (4 credits total) Choose from: AG 122, 174, 200; ANTH 215; ASTR; BIOC,
 BIOL; FSHN; GEOG 101, 101L; GG; MICR; OCN 201, 201L; PHYS; SCI; ZOOL

Social Science Elective (3 credits)

Course	Credits	Grade	Semester	Year
Choose at least one course from the following: ANTH (<i>except 215</i>), BOT 105, ECON, FAMR, GEOG (<i>except 101, 101L</i>), POLS, PSY, SSci, SOC				

Additional ASNS Requirements (7 credits)

Course	Credits	Grade	Semester	Year
CHEM 162 (3)				
CHEM 162L (1)				
ICS 101 (3) or higher with approval				

Physical Concentration Requirements (13 credits)

Course	Credits	Grade	Semester	Year
MATH 206 (4)				
PHYS 170 (5)				
PHYS 272 (4)				

Physical Science Concentration Electives (17 credits)

Course	Credits	Grade	Semester	Year
If not taken for Natural Science Elective, choose from: AG 200 (4), 265 (4); ANTH 210 (3) 210L (1), 215 (3); ASTR 110 (3), 110L (1); BIOG 241 (3), 244 (3); BIOL 105 (4), 124 (3), 124L (1), 151 (3), 152 (3), 171 (3), 171L (1), 172 (3) 172L (1), 200 (4), 225 (4), 226 (5), 265 (3); GEOG 101 (3), 101L (1); GIS 150 (4), 180 (4); GG 101 (4), 103 (3); MATH 231 (3)*, 232 (3)*; MICR 130 (3), 140 (2); OCN 201 (3), 201L (1); ZOO 141 (4), 142 (4), 200 (4) *Recommended				

The Associate in Science in Natural Science Degree (ASNS) provides a comprehensive background in science and math courses and is designed specifically for students who are planning to transfer to baccalaureate degree programs in science, technology, engineering, or mathematics (STEM). Students may choose to concentrate in either the biological sciences or the physical sciences.

Associate in Science - Natural Science						
(Name: Last, First, Middle Initial)			(UH ID Number)			
Graduation Requirements						
CREDITS						
<input type="checkbox"/> Minimum Applicable: 60 Credits, 100-level or higher						
GRADES						
<input type="checkbox"/> Minimum Cumulative GPA: 2.0						
RESIDENCY						
<input type="checkbox"/> Minimum UHMC: 12 credits						
WRITING INTENSIVE (WI): Two courses						
<input type="checkbox"/> 1 _____						
<input type="checkbox"/> 2 _____						
Degree Requirements						
English (6 credits)		Course	Credits	Grade	Semester	Year
ENG 100 (3)						
Choose at least one course from the following: ENG 106 (3), ENG 209 (3), ENG 210 (3), SP 151 (3), SP 251 (3)						
Quantitative Reasoning (4 credits)		Course	Credits	Grade	Semester	Year
MATH 205 (4)						
Humanities Elective (3 credits)		Course	Credits	Grade	Semester	Year
Choose at least one course from the following: ART, COM, DNCE, DRAM, EALA, ENG 250-257, HAW, HWST, HIST, HUM, JPNS, LING, MUS, PHIL, REL, SPAN, SP						
Natural Science Electives (8 credits)		Course	Credits	Grade	Semester	Year
CHEM 161 (3)						
CHEM 161L (1)						
Electives (4 credits total) Choose from: AG 122, 174, 200; ANTH 215; ASTR; BIOC; BIOL; FSHN; GEOG 101, 101L; GG; MICR; OCN 201, 201L; PHYS; SCI; ZOOL						
Social Science Electives (3 credits)		Course	Credits	Grade	Semester	Year
Choose at least one course from the following: ANTH (except 215), BOT 105, ECON, FAMR, GEOG (except 101, 101L), POLS, PSY, SSCI, SOC						
Additional ASNS Requirements (7 credits)		Course	Credits	Grade	Semester	Year
CHEM 162 (3)						
CHEM 162L (1)						
ICS 101 (3) or higher with approval						
Continue next page with your specific concentration						

Biological Science Concentration					
Biological Concentration Requirements (16-17 credits)					
	Course	Credits	Grade	Semester	Year
	BIOL 171 (3)				
	BIOL 171L (1)				
	BIOL 172 (3)				
	BIOL 172L (1)				
	PHYS 151 (4) or 170 (5)				
	PHYS 152 (4) or 272 (4)				
Biological Concentration Electives (12-13 credits)					
	Course	Credits	Grade	Semester	Year
	If not taken for Natural Science Elective, choose from: AG 200 (4); ANTH 210 (3) 210L (1), 215 (3); ASTR 110 (3), 110L (1); BIOC 241 (3), 244 (3); BIOL 105 (4), 124 (3), 124L (1), 151 (3), 151L (1), 200 (4), 225 (4), 226 (5); GEOG 101 (3), 101L (1); GIS 150 (4), 180 (4); GG 101 (4), 103 (3); MATH 206 (4), 231 (3), 232 (3); MICR 130 (3), 140 (2); OCN 201 (3), 201L (1); PHYS 170 (5), 272 (4); ZOOL 141 (4), 142 (4), 200 (4)				
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Physical Science Concentration					
Physical Concentration Requirements (13 credits)					
	Course	Credits	Grade	Semester	Year
	MATH 206 (4)				
	PHYS 170 (5)				
	PHYS 272 (4)				
Physical Science Concentration Electives (17 credits)					
	Course	Credits	Grade	Semester	Year
	If not taken for Natural Science Elective, choose from: AG 200 (4); ANTH 210 (3) 210L (1), 215 (3); ASTR 110 (3), 110L (1); BIOC 241 (3), 244 (3); BIOL 105 (4), 124 (3), 124L (1), 151 (3), 151L (1), 171 (3), 171L (1), 172 (3) 172L (1), 200 (4), 225 (4), 226 (5); GEOG 101 (3), 101L (1); GIS 150 (4), 180 (4); GG 101 (4), 103 (3); MATH 231 (3)*, 232 (3)*; MICR 130 (3), 140 (2); OCN 201 (3), 201L (1); ZOOL 141 (4), 142 (4), 200 (4) *Recommended				
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Biological Concentration Requirements (16-17 credits)

	Course	Credits	Grade	Semester	Year
BIOL 171 (3)					
BIOL 171L (1)					
BIOL 172 (3)					
BIOL 172L (1)					
PHYS 151 (4) or 170 (5)					
PHYS 152 (4) or 272 (4)					

Biological Concentration Electives (12-13 credits)

	Course	Credits	Grade	Semester	Year
If not taken for Natural Science Elective or Biological Concentration Requirement, choose from: AG 200 (4), 265 (4); ANTH 210 (3) 210L (1), 215 (3); ASTR 110 (3), 110L (1); BIOC 241 (3), 244 (3); BIOL 105 (4), 124 (3), 124L (1), 151 (3), 152 (3), 200 (4), 225 (4), 226 (5), 265 (3); GEOG 101 (3), 101L (1); GIS 150 (4), 180 (4); MATH 206 (4), 231 (3), 232 (3); MICR 130 (3), 140 (2); OCN 201 (3), 201L (1); PHYS 170 (5), 272 (4); ZOOL 141 (4), 142 (4), 200 (4)					
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Physical Concentration Requirements (13 credits)						Course	Credits	Grade	Semester	Year
MATH 206 (4)										
PHYS 170 (5)										
PHYS 272 (4)										
Physical Science Concentration Electives (17 credits)						Course	Credits	Grade	Semester	Year
If not taken for Natural Science Elective, choose from: AG 200 (4), 265 (4); ANTH 210 (3) 210L (1), 215 (3); ASTR 110 (3), 110L (1); BIOC 241 (3), 244 (3); BIOL 105 (4), 124 (3), 124L (1), 151 (3), 152 (3), 171 (3), 171L (1), 172 (3) 172L (1), 200 (4), 225 (4), 226 (5), 265 (3); GEOG 101 (3), 101L (1); GIS 150 (4), 180 (4); GG 101 (4), 103 (3); MATH 231 (3)*, 232 (3)*; MICR 130 (3), 140 (2); OCN 201 (3), 201L (1); ZOOL 141 (4), 142 (4), 200 (4) *Recommended										
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