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Master Curriculum	
CIP Code	
Program Code	
Program Description	

University of Hawai'i  
Code Request Form for Academic Programs

# REPLACE PROGRAM CODE

Date: 12/8/15

## REQUESTOR CONTACT INFORMATION

Name Shelby Wong Campus UH Hilo  
 Title Curriculum & Catalog Coord Email shelbyw@hawaii.edu  
 Office/Dept OVCAA Phone (808) 932-7927

## NEW PROGRAM CODE TO CREATE

Institution HIL - UH Hilo Campus HIL - UH Hilo  
 Level UG - Undergraduate Effective Term Fall 2016

	Code (Max. Characters)	Description	Check if requesting new code:
College	(2) <u>AR</u>	<u>Arts &amp; Sciences</u>	<input type="checkbox"/> See Banner form STVCOLL
Department	(4) <u>NATS</u>	<u>Natural Sciences</u>	<input type="checkbox"/> See Banner form STVDEPT
Degree/Certificate	(6) <u>BA</u>	<u>Bachelor of Arts</u>	<input type="checkbox"/> See Banner form STVDEGC
Major	(4) <u>CHEM</u>	<u>Chemistry</u>	<input type="checkbox"/> See Banner form STVMAJR
Concentration	(4) <u>BIOS</u>	<u>Biosciences</u>	<input checked="" type="checkbox"/> See Banner form STVMAJR
Minor	(4) _____	_____	<input type="checkbox"/> See Banner form STVMAJR

If a similar major/concentration code exists in Banner, please list the code: No

Justification to warrant a new major/concentration code similar to an existing major/concentration code:

Is this major/concentration code being used the same way at the other UH campuses?  Yes  No  
 Should this program be available for applicants to select as their planned course of study on the online application? *If yes, student may select the code as their only program of study.*  Yes  No

### RULES PERTAINING TO FINANCIAL AID AND 150% DIRECT SUBSIDIZED LOAN LIMIT LEGISLATION

Is 50% or greater of the classes in this program offered at a location other than the Home Campus?  Yes  No  
 Is this program/major/certificate financial aid eligible?  Yes  No  
 Does this certificate qualify as a Gainful Employment Program (Title IV-eligible certificate program)?  Yes  No

See <http://www.ifap.ed.gov/GainfulEmploymentInfo/index.html>

### Program Length

(In academic years; decimals are acceptable.) The length of the program should match what is published by the campus in any online and/or written publication.

4 years

Special Program Designations  A  B  N  P  T  U

See Special Program Designations Code Definitions on IRAO Program Code Request webpage

Required Terms of Enrollment  Fall  Spring  Summer  Extended

REPLACE PROGRAM CODE

EXISTING PROGRAM CODE TO REPLACE

Program Code	<u>BA-CHEM-HLT</u>	Program Description	<u>BA- Chemistry Health Sciences</u>
Institution	<u>HIL - UH Hilo</u>	Campus	<u>HIL - UH Hilo</u>
College	<u>AR</u>	Department	<u>NATS</u>
Level	<u>UG - Undergraduate</u>		

Are current students "grandfathered" under the program code?  Yes  No  
 Should the old program code be available for use in Banner?  Yes  No

Effective Fall 2016, old program code will no longer be available to admit or recruit students.  
Term (ie. Fall 2014)

*This will turn off the online application, recruitment (effects Banner forms SRASUMI and SRAQUIK) and admissions (effects Banner forms SAADCRV, SAAADMS, SAASUMI, SAAQUIK, and SAAQUAN) Banner modules.*

Effective Fall 2016, old program code will no longer be available to award degree to students.  
Term (ie. Fall 2014)

*This will turn off the general student (effects Banner form SGASTDN) and academic history (effects Banner form SHADEGR) Banner modules.*

ATTACHMENTS

**BOR Approved:** Associate, Bachelor and Graduate Degrees, and sole credential certificates


- BOR Meeting Minutes & Supporting Documents <sup>1</sup>  Curriculum
- Memo with President's Approval, with cc to VPAA, to change existing code <sup>2</sup>

**Chancellor Approved:** Certificates (eg. Certificate of Achievements, Certificates of Competence, Subject Certificates, Academic Subject Certificates) & Associate in Technical Studies (ATS) Degree

- Memo from Chancellor to VPAA to change existing code and create new code  Curriculum

VERIFICATIONS

**Registrar:**

<u>Chelsea Kay-Wong</u>		<u>12/17/15</u>
Print Name	Signature	Date

**Financial Aid Officer:**

<u>Sherrie Padilla</u>		<u>12/17/15</u>
Print Name	Signature	Date

**For Community Colleges, verification of consultation with OVPCC Academic Affairs:**

_____	_____	_____
Print Name	Signature	Date

<sup>1</sup> Required for change in degree.  
<sup>2</sup> Required for program title with no substantive change in curriculum.



UNIVERSITY  
of HAWAII®  
**HILO**

Office of the Vice Chancellor for Academic Affairs

December 30, 2015

**MEMORANDUM**

**TO:** Donald Straney, Chancellor  
University of Hawai'i at Hilo

**FROM:** Matthew Platz  
Vice Chancellor for Academic Affairs  
University of Hawai'i at Hilo

A handwritten signature in blue ink that reads 'Matthew Platz'.

**SUBJECT:** Request for Approval of Program Concentration Codes for:  
BA- Economics (Sustainable Development Track)  
BA- Chemistry (Biosciences Track)

**SPECIFIC ACTION REQUESTED:**

We request that the following new program concentration codes be approved for use:

BA-ECON Requested new concentration code:  
SUST: Sustainable Development Track

BA-CHEM-HLT Replace concentration code of HLT to:  
BIOS: Biosciences

**RECOMMENDED EFFECTIVE DATE:**

We request the effective dates as specified below:

BA-ECON-SUST: Retroactive to Fall 2011. When the curriculum was approved for the Sustainable development track for Fall 2011, no change to the program code was requested.

BA-CHEM-BIOS: Fall 2016

**ADDITIONAL COST:**

There is no additional cost associated with this request

**PURPOSE:**


BA-ECON-SUST: The purpose of this request is to correctly note the approved track for students in Sustainable Development, which was approved on 11/23/2010 and implemented starting in the Fall 2011 semester.


BA-CHEM-BIOS: The Chemistry Department was approved on 11/24/2015 to change the name of the existing track in "Health Sciences" to "Biosciences" effective for the Fall 2016 semester. The name change better reflects the program's content and goals.

**ACTION RECOMMENDED:**

We recommend that you approve the new program concentration codes for use for the BA Economics and the BA Chemistry degree programs.

**APPROVED/DISAPPROVED:**

  
\_\_\_\_\_  
Donald Straney, Chancellor

  
\_\_\_\_\_  
Date

Cc: Risa Dickson, UH System Vice President for Academic Affairs  
Zachary Street, Interim Director of Admissions  
Chelsea Kay-Wong, Interim Registrar

# UH Hilo

**Degree:** Bachelor of Arts  
**Division:** Chemistry  
**Title:** BA in Chemistry - Biosciences  
**Description:**  
**Effective Date:** Fall 2016

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## 1. Is this a proposal for

**(a) modification of an existing undergraduate or graduate program/degree/major/minor/certificate?**

**(b) a new certificate or minor or track within an existing baccalaureate or graduate program?**

**(c) a proposal for an individual liberal studies major equivalent?**

**(d) a request for Approval To Plan a new graduate or undergraduate degree program (ATP)?**

**(e) a new graduate degree program or a new baccalaureate degree program?**

**If (a) or (b), please answer all questions in this proposal form.**

**If (c), provide student's name, student ID, faculty advisor's name, and title of proposed program in the space below; then answer question 2 only, and attach the proposal and advisor's letter.**

**If (d), answer only questions 1 and 9 and attach your request for Approval to Plan.**

**If (e), answer all questions and attach both the signed, approved ATP for your proposed program and the program proposal by clicking the "Attachment" tab at the bottom of the proposal form.**

**The BOR E5.201 template for new programs and budget template are posted on the VCAA Curriculum Resources page:  
<http://hilo.hawaii.edu/uhh/vcaa/CurriculumResources.php>**

**Consult CurrCtrl campus administrator Jon Awaya [awayaj@hawaii.edu](mailto:awayaj@hawaii.edu) for assistance.**

This is a program modification.

The only modifications requested are to change the designation from BA to BS and to change the name of the program. Since the program is currently at the BS level, no change in content is proposed. The proposed name change, Chemistry-Biosciences, better reflects the program's content and goals.

## 2. Please answer the following, for both new programs and modifications, numbering your answers.

**1. Specify (a) the number of credits required for the program and (b) the number of elective credits.**

**2. Specify the minimum required GPA for courses taken for the major, minor or certificate. Unless otherwise stipulated here, the minimum required GPA will be set as 2.0 (C) in Banner.**

**3. Specify the minimum acceptable grade for each course taken for the major, minor, or certificate. Unless otherwise stipulated here, the minimum acceptable grade will be set as 1.0 (D) in Banner.**

1. Required credits: 75-77

Elective credits: 3

2. Minimum required GPA for major courses: 2.0

3. Minimum acceptable grade for a course taken for the major: 2.0

**3. How does the NEW program or program modification benefit students, the curriculum, and the institution, and how does this change relate to or impact other programs at the university?**

NA

**4. Describe any additional library resources, facilities, equipment or other resources required for the new or modified program and provide an estimate of such costs.**

Type in "None" if appropriate.

No new facilities, equipment, or library resources are required for the modified program.

**5. Describe any additional faculty required for the new or modified program and provide an estimate of such costs.**

No additional faculty are required.

**6. If this is a new program or a new certificate or a minor or a new track within an existing program, copy and paste from a Word document into the window below a catalog-ready list of the graduation (or minor or certificate) requirements, including required courses and acceptable electives.**

**If this is a program modification, copy and paste the current requirements into the window below; strike out portions to be deleted, and underline any new or additional portions.**

**Reminder: This proposal is for one type of program. Include requirements for only one type of program: the BA, or the minor, or the certificate, as indicated by the type of program you selected when you created this proposal.**

Below is the program listing from the 2014-2015 UHH catalog  
([http://hilo.hawaii.edu/catalog/ba\\_chem.html](http://hilo.hawaii.edu/catalog/ba_chem.html)):

~~B.A.~~ B.S. in ~~Chemistry: Health Sciences~~ -  
Biosciences Requirements

[Home](#) » [Undergraduate Education](#) » [College of Arts and Sciences \(CAS\)](#) » [Chemistry](#) » ~~B.A.~~ [B.S. in Chemistry-Health Sciences -Biosciences Requirements](#)

## Group 1. General Education Basic, Area, and Integrative Requirements.

[Students may choose to graduate under the General Education Basic, Area, and Integrative requirements and graduation requirements in force at the time they entered the UH System, when they entered UH Hilo, or when they graduate, provided there is no break in enrollment lasting longer than one semester.

Students should meet with their academic advisor to ensure that they enroll in courses that will enable them to meet these requirements as well as requirements for the major and for graduation. Some courses may meet both General Education requirements and major requirements.

The new GE basic, core, and integrative requirements and lists of certified courses are posted at [hilo.hawaii.edu/academics/gened/](http://hilo.hawaii.edu/academics/gened/).

## Group 2. Major Requirements (and Assigned Credits)

**1. Required courses from Chemistry**

- o ~~CHEM 124-124L~~ 161-161L Chemistry I with Lab (4)
- o ~~CHEM 125-125L~~ 162-162L Chemistry II with Lab (4)
- o CHEM 241-241L and 242-242L Organic Chemistry with Lab (8)
- o CHEM 320 Descriptive Inorganic Chemistry (3)
- o ~~CHEM 333~~ 274-274L Quantitative Analysis with Lab (5)
- o CHEM 350-350L Physical Chemistry for the Life Sciences with Lab (5)
- o CHEM 431-431L Instrumental Analysis with Lab (4)
- o CHEM 495A-495B Seminar (2 semesters) (2)
- o **and a minimum of three** additional hours in CHEM courses above the 200-level. CHEM 341 (Qualitative Organic Analysis) or CHEM 441 (Intermediate Organic Chemistry) is recommended. (3)

**2. Required courses from related fields**

- o MATH 205 Calculus I (4)
- o MATH 206 Calculus II (4)
- o PHYS 106-170L College Physics I with Lab (4) **or** PHYS 170-170L Gen Phys I: Mechanics with Lab (5)
- o PHYS 107-171L College Physics II with Lab (4) **or** PHYS 171-171L Gen Phys II: Elec & Magnetism with Lab (5)
- o BIOL 175-175L Introductory Biology with Lab (4)
- o BIOL 243-243L Human Anatomy and Physiology I with Lab (4)
- o BIOL 244-244L Human Anatomy and Physiology II with Lab (4)
- o BIOL 270 Intermediate Cell and Molecular Biology (3)
- o BIOL 410 Biochemistry (3)
- o BIOL 466 Genetics (3)

**Group 2 Total: 75-77 Semester Credits**

## Minimum total semester credits required for the ~~BA~~ BS in Chemistry

120 semester credits

## Additional recommended courses include

- Eight semester hours of a foreign language (French, Spanish, or Japanese)
- ENG 225 (Writing for Science and Technology)
- MATH 300 (Ordinary Differential Equations)
- MATH 311 (Introduction to Linear Algebra)

## Notes



1. Students must earn at least a 2.0 GPA in courses required for the major.
2. Physical Chemistry majors must take at least 21 upper division credits (courses 300 or above); Health Sciences Chemistry majors must take at least 24 upper division credits (courses 300 or above).
3. To earn a Bachelor of Arts in Chemistry, students must fulfill the requirements for the major **and** meet all of the University's other baccalaureate degree requirements. (Please see the Baccalaureate Degree Requirements in this Catalog.)
4. Students should always check course prerequisites and the frequency with which courses are offered.
5. To ensure progress toward degree completion, **students are strongly encouraged to meet with an advisor each semester before registering.**

Rev. 3/12/13

7. **List any new courses or modified courses being proposed with this program proposal, providing alpha, number, and title of each one. The proposals for these new/modified courses MUST be submitted at the same time as this program proposal, to ensure proper review by approvers. Specify "Proposal submitted" next to each course in your list.**

No new or modified courses are being proposed.

8. **Does this new or modified program involve courses offered by other departments? If not, type in "no."  
If yes, please attach an email (in PDF) or other document from the chair(s) of the other department(s) approving the inclusion of those courses by alpha, number, and title.**

**To attach, click on the ATTACHMENT button at the bottom of this page, next to the SUBMIT button.**

No.

9. **Please record the department vote approving the proposed change(s): Approve, Not Approve, Abstain; give the date of the vote.**

5 - 0 - 0

March 6, 2015

10. **Provide other attachments that you believe will be useful and informative to reviewers and approvers.**

The current B.A. in Chemistry: Health Sciences is actually at the B.S. level and its designation should be changed to reflect this fact. Below is comparison of the current two B.A. programs in Chemistry at UHH with the B.S. in Chemistry at UH-Manoa in column 1 and the B.A. in Chemistry: Health Sciences in column 3. (This table was prepared by Dr. Thomas Poon, an external reviewer from Pitzer College.) Both of the Chemistry Programs at UHH are comparable in rigor and content with the B.S. Chemistry program at UH-Manoa, as measured by total courses and total credit hours.

Comparison of B.S. Chemistry degree at UH-Manoa with UH-Hilo B.A. Chemistry Degrees

<b>UH-Manoa Chemistry B.S.</b>	<b>UH-Hilo Chemistry B.A.</b>	<b>UH-Hilo Chemistry: Health Sciences B.A.</b>
CHEM 161/161L (4) CHEM 162/162L (4) CHEM 272/272L (5) CHEM 273/273L (4) CHEM425/425L (5) CHEM274/274L (5)  CHEM 351 (3) CHEM 352/352L (5) CHEM 427 (3)  CHEM 445/445L <sup>†</sup> (2) CHEM Upper Lvl Elective (3) CHEM Upper Lvl Elective (3) BIOL 171/171L (4)	CHEM 124–124L (4) CHEM 125–125L (4) CHEM 241–241L (4) CHEM 242–242L (4) CHEM 320 (3) CHEM 333 (5)  CHEM 351–351L (4) CHEM 352–352L (4) CHEM 421 (3) CHEM 431–431L (4) CHEM 495A–495B (2)  BIOL 175–175L (4) BIOL 176–176L (4)	CHEM 124–124L (4) CHEM 125–125L (4) CHEM 241–241L (4) CHEM 242–242L (4) CHEM 320 (3) CHEM 333 (5)  CHEM 350–350L (5)  CHEM 431–431L (4) CHEM 495A–495B (2)  CHEM 200+ Lvl Elective (3)  BIOL 175–175L (4) BIOL 176–176L (4)
BIOL 275/275L (4) CHEM 372 (3) or BIO 402 (4) MATH 241-242 (8) MATH 243 (3)  PHYS 170/170L (5) PHYS 272/272L (4)	BIOL 270 (3) BIOL 410 (3) MATH 205–206 (8) MATH 231 (3)  PHYS 170–170L (5) PHYS 171–171L (5)	BIOL 270 (3) BIOL 410 (3) MATH 205–206 (8)  BIOL 466 (3) BIOL 243–243L (4) BIOL 243–243L (4) PHYS 106–170L (4) or PHYS 170–170L (5) PHYS 107–171L (4) or PHYS 171–171L (5)
<i>Total Courses<sup>‡</sup> = 20</i>	<i>Total Courses<sup>‡</sup> = 19.66</i>	<i>Total Courses<sup>‡</sup> = 20.66</i>
<b>Total Cr. Hrs = 77-78</b>	<b>Total Cr. Hrs. = 76</b>	<b>Total Cr. Hrs. = 79-81</b>

**Campus:** HIL  
**Updated By:** SHELBYW  
**Updated Date:** 12/21/2015 2:46 PM

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Welcome: SHELBY WONG  
(ASTR)

Program Detail: BA in Chemistry - Biosciences CAS-NS-CHEM -

Approval History | Approver Comments | Approval Status | Action Log

Approval History back to top

**09/04/2015 - SHELBYW**  
(Vote for: 0; Vote against: 0; Vote abstain: 0)

**10/08/2015 - NFURUMO**  
(Vote for: 0; Vote against: 0; Vote abstain: 0)

**10/08/2015 - EKHO**  
I approve the BA in Chemistry - Health Sciences as proposed. (Vote for: 1; Vote against: 0; Vote abstain: 0)

**10/09/2015 - LAUER3**  
(Vote for: 4; Vote against: 0; Vote abstain: 0)

**10/12/2015 - SUSANB**  
(Vote for: 0; Vote against: 0; Vote abstain: 0)

**11/23/2015 - NFURUMO**  
(Vote for: 7; Vote against: 0; Vote abstain: 0)

**11/24/2015 - MPLATZ**  
(Vote for: 0; Vote against: 0; Vote abstain: 0)

Approval Comments back to top

- Reviewer comments (0)
- Approval comments (0)
- Review within approval comments (0)

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**Completed approvals**

Search:

Sequence	Approver	Title	Position	Date	Role	Approved	Progress
No data available in table							
Showing 0 to 0 of 0 entries							

**Pending approvals**

Search:

Sequence	Approver	Title	Position	Delegate
3	EKHO	ASSOCIATE PROFESSOR AND CHAIR, CHEMISTRY	DIVISION CHAIR, NATURAL SCIENCES	
4	LAUER3	ASST PROF	CHAIR CAS CURRICULUM REVIEW COM.	
7	MPLATZ	VCAA	VCAA	
2	NFURUMO	PROFESSOR	CHAIR, FAC CONGRESS CURRICULUM REVIEW COM.	

6	NFURUMO	PROFESSOR	CHAIR, FAC CONGRESS CURRICULUM REVIEW COM.	
1	SHELBYW	CURRICULUM COORDINATOR	CURRICULUM COORDINATOR FOR ACADEMIC AFFAIRS	CKWONG
5	SUSANB	PROFESSOR	ASSOC DEAN CAS	

Showing 1 to 7 of 7 entries

Action Log back to topShow  entriesSearch: 

User	script	Action	Date
NFURUMO	ACTION	Save history - BA in Chemistry - Health Sciences	10/08/2015 9:44 AM
NFURUMO	ACTION	Program approval by NFURUMO - BA in Chemistry - Health Sciences	10/08/2015 9:44 AM
NFURUMO	REMOVE	Approve Program Proposal - BA in Chemistry - Health Sciences	10/08/2015 9:44 AM
EKHO	ADD	Approve Program Proposal - BA in Chemistry - Health Sciences	10/08/2015 9:44 AM
NFURUMO	ACTION	CC: Program Notification (EKHO) - BA in Chemistry - Health Sciences	10/08/2015 9:44 AM
NFURUMO	ACTION	Approval recommendation (BA in Chemistry - Health Sciences) from nfurumo@hawaii.edu to ekho@hawaii.edu	10/08/2015 9:44 AM
EKHO	ACTION	Save history - BA in Chemistry - Health Sciences	10/08/2015 1:26 PM
EKHO	ACTION	Program approval by EKHO - BA in Chemistry - Health Sciences	10/08/2015 1:26 PM
EKHO	REMOVE	Approve Program Proposal - BA in Chemistry - Health Sciences	10/08/2015 1:26 PM
LAUER3	ADD	Approve Program Proposal - BA in Chemistry - Health Sciences	10/08/2015 1:26 PM
NFURUMO	ACTION	CC: Program Notification (LAUER3) - BA in Chemistry - Health Sciences	10/08/2015 1:26 PM
EKHO	ACTION	Approval recommendation (BA in Chemistry - Health Sciences) from ekho@hawaii.edu to LAUER3@HAWAII.EDU	10/08/2015 1:26 PM
LAUER3	ACTION	Save history - BA in Chemistry - Health Sciences	10/09/2015 3:49 PM
LAUER3	ACTION	Program approval by LAUER3 - BA in Chemistry - Health Sciences	10/09/2015 3:49 PM
LAUER3	REMOVE	Approve Program Proposal - BA in Chemistry - Health Sciences	10/09/2015 3:49 PM
SUSANB	ADD	Approve Program Proposal - BA in Chemistry - Health Sciences	10/09/2015 3:49 PM
NFURUMO	ACTION	CC: Program Notification (SUSANB) - BA in Chemistry - Health Sciences	10/09/2015 3:49 PM
LAUER3	ACTION	Approval recommendation (BA in Chemistry - Health Sciences) from LAUER3@HAWAII.EDU to susanb@hawaii.edu	10/09/2015 3:49 PM
SUSANB	ACTION	Save history - BA in Chemistry - Health Sciences	10/12/2015 10:15 AM
SUSANB	ACTION	Program approval by SUSANB - BA in Chemistry - Health Sciences	10/12/2015 10:15 AM