

New Program Code Replace Program Code

Date: 10/24/23

REQUESTOR CONTACT INFORMATION

Name Shelby Iwamoto Campus UH Hilo
 Title Acad and Grad Program Offcr Email shelbyw@hawaii.edu
 Office/Dept Ofc Vice Chanc Academic Affairs Phone 808-932-7927

NEW PROGRAM CODE TO CREATE

Institution UH Hilo Campus HIL
 Level UG Effective Term Fall 2024

	Code (Max. Characters)	Description	Check if requesting new code:
College	(2) <u>NH</u>	<u>Natural and Health Sciences</u>	<input type="checkbox"/> See Banner form STVCOLL
Department	(4) <u>CS</u>	<u>Computer Science</u>	<input type="checkbox"/> See Banner form STVDEPT
Degree/Certificate	(6) <u>BS</u>	<u>Bachelor of Science</u>	<input type="checkbox"/> See Banner form STVDEGC
Major	(4) <u>DSCI</u>	<u>Data Science</u>	<input type="checkbox"/> See Banner form STVMAJR
Concentration	(4) <u>ASTR</u>	<u>Astronomy</u>	<input 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: _____

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

EXISTING PROGRAM CODE TO REPLACE, IF APPLICABLE

Program Code _____	Program Description _____
Institution _____	Campus <u>UH Hilo</u>
College _____	Department _____
Level _____	

Are current students "grandfathered" under the program code? Yes No

Should the old program code be available for use in Banner? Yes No

Effective **, old program code will no longer be available to admit or recruit students.**
Term (ie. Fall 2020)

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 **, old program code will no longer be available to award degree to students.**
Term (ie. Fall 2020)

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

ATTACHMENTS

BOR Approved: Sole-credential Certificate, Associate, Bachelor and Graduate Degrees, and sole credential certificates

- BOR Meeting Minutes & Supporting Documents Curriculum

Chancellor Approved: Concentrations, Certificates and Associate in Technical Studies (ATS) Degree

- Memo from Chancellor to notify Vice President for Academic Planning and Policy regarding program action.
 Curriculum

CERTIFICATES ONLY: Please check one (1) statement. This certificate is a...

BOR approved certificate. BOR Meeting/Approval Date: _____

Chancellor approved within an authorized BOR program. BOR Program: _____

Chancellor approved CO in accordance with UHCCP 5.203, Section IV.B.10.

VERIFICATIONS

By signing below, I verify that I have reviewed and confirm the above information that is pertinent to my position.

<p>Registrar (Print Name)</p> <p><u>Chelsea Kay-Wong</u></p> <p> _____</p> <p>Signature Date</p>	<p>Financial Aid Officer (Print Name)</p> <p><u>Sherrie Padilla</u></p> <p> _____</p> <p>Signature Date</p>	<p>For Community Colleges, verification of consultation with OVPC Academic Affairs:</p> <p><u>Tammi Oyadomari-Chun</u></p> <p>Signature Date</p>
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ADDITIONAL COMMENTS

CIP Code Assigned by WASC: 30.7001 Data Science
 New Program Code: BS-DSCI-ASTR
 Program Description: BS Data Science- Astronomy

New Program Code Replace Program Code

Date: 10/24/2023

REQUESTOR CONTACT INFORMATION

Name Shelby Iwamoto Campus UH Hilo
 Title Acad and Grad Program Offcr Email shelbyw@hawaii.edu
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Degree/Certificate	(6) <u>BS</u>	<u>Bachelor of Science</u>	<input type="checkbox"/> See Banner form STVDEGC
Major	(4) <u>DSCI</u>	<u>Data Science</u>	<input type="checkbox"/> See Banner form STVMAJR
Concentration	(4) <u>BUS</u>	<u>Business</u>	<input type="checkbox"/> See Banner form STVMAJR
Minor	(4) _____	_____	<input type="checkbox"/> See Banner form STVMAJR

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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

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4 Years

Special Program Designations A B N P T U

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ADDITIONAL COMMENTS

CIP Code Assigned by WASC: 30.7001 Data Science
 New Program Code: BS-DSCI-BUS
 Program Description: BS Data Science- Business

New Program Code Replace Program Code

Date: 10/24/23

REQUESTOR CONTACT INFORMATION

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 Title Acad and Grad Program Offcr Email shelbyw@hawaii.edu
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Degree/Certificate	(6) <u>BS</u>	<u>Bachelor of Science</u>	<input type="checkbox"/> See Banner form STVDEGC
Major	(4) <u>DSCI</u>	<u>Data Science</u>	<input type="checkbox"/> See Banner form STVMAJR
Concentration	(4) <u>CMP</u>	<u>Computational</u>	<input checked="" type="checkbox"/> See Banner form STVMAJR
Minor	(4) _____	_____	<input type="checkbox"/> See Banner form STVMAJR

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ADDITIONAL COMMENTS

<p>CIP Code Assigned by WASC: 30.7001 Data Science New Program Code: BS-DSCI-CMP Program Description: BS Data Science- Computational</p>
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New Program Code Replace Program Code

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Major	(4) <u>DSCI</u>	<u>Data Science</u>	<input type="checkbox"/> See Banner form STVMAJR
Concentration	(4) <u>STAT</u>	<u>Statistics</u>	<input checked="" type="checkbox"/> See Banner form STVMAJR
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ADDITIONAL COMMENTS

CIP Code Assigned by WASC: 30.7001 Data Science
 New Program Code: BS-DSCI-STAT
 Program Description: BS Data Science- Statistics









BS-DSCI-STAT New Program Code Request 2023-10-24

Final Audit Report

2023-10-25

Created:	2023-10-24
By:	Shelby Wong (shelbyw@hawaii.edu)
Status:	Signed
Transaction ID:	CBJCHBCAABAAknk5xio5YEXnVHoWte90AcUx9d9_MkgS

"BS-DSCI-STAT New Program Code Request 2023-10-24" History

-  Document created by Shelby Wong (shelbyw@hawaii.edu)
2023-10-24 - 8:31:35 PM GMT- IP address: 132.160.123.148
-  Document emailed to Sherrie Padilla (sherriep@hawaii.edu) for signature
2023-10-24 - 8:33:22 PM GMT
-  Email viewed by Sherrie Padilla (sherriep@hawaii.edu)
2023-10-25 - 2:48:45 AM GMT- IP address: 132.160.64.170
-  Document e-signed by Sherrie Padilla (sherriep@hawaii.edu)
Signature Date: 2023-10-25 - 2:49:24 AM GMT - Time Source: server- IP address: 132.160.64.170
-  Document emailed to Chelsea Kay-Wong (ckwong@hawaii.edu) for signature
2023-10-25 - 2:49:25 AM GMT
-  Email viewed by Chelsea Kay-Wong (ckwong@hawaii.edu)
2023-10-25 - 4:34:09 AM GMT- IP address: 72.234.111.232
-  Document e-signed by Chelsea Kay-Wong (ckwong@hawaii.edu)
Signature Date: 2023-10-25 - 4:34:47 AM GMT - Time Source: server- IP address: 72.234.111.232
-  Agreement completed.
2023-10-25 - 4:34:47 AM GMT

Program Code **Data Science, BS**

Approved | Fall 2023

Proposal Information

Status

Active

Workflow Status

Complete

Form Submission, Proposer

Submitted for Approval | Proposer

- ✓ Travis Mandel | 10/01/2022 11:59 PM

Proposer Submission Notification, Proposer

Notification Sent | Proposer

- ✉ Travis Mandel

Curriculum Coordinator, Curriculum Coordinator

Approved | Curriculum Coordinator

- ✓ Shelby Iwamoto | 10/12/2022 7:25 AM

- Cheri Keli'i-Marumoto

Department Chair, Computer Science (CS)

Approved | Department Chair

- ✓ Michael Peterson | 10/12/2022 6:07 PM

Proposer Update Notification, Proposer

Notification Sent | Proposer

- ✉ Travis Mandel

Division Chair, College of Natural and Health Sciences (CNHS)

Skipped | No name for role found

College Curriculum Review Committee Chair, College of Natural and Health Sciences (CNHS)

Approved | College Curriculum Review Committee Chair

- Pat Hart

- ✓ Stan Nakanishi | 11/03/2022 12:12 PM

Senate Chair, College of Natural and Health Sciences (CNHS)

Skipped | No name for role found

Associate Dean, College of Natural and Health Sciences (CNHS)

Skipped | No name for role found

Dean, College of Natural and Health Sciences (CNHS)

Approved | Dean

- ✓ Brian Wissman | 11/17/2022 1:20 PM

Proposer Update Notification, Proposer

Notification Sent | Proposer

- ✉ Travis Mandel

CCRC Chair, CCRC

Approved | CCRC Chair

- ✓ Alexander Nagurney

approved 7-0-0 11/15/22

12/16/2022 6:02 PM

Proposer Update Notification, Proposer

Notification Sent | Proposer

✉ Travis Mandel

VCAA, VCAA

Approved | VCAA

✓ Kris Roney | 12/20/2022 8:44 AM

Proposer Update Notification, Proposer

Notification Sent | Proposer

✉ Travis Mandel

Curriculum Coordinator - Final, Curriculum Coordinator

Approved | Curriculum Coordinator

✓ Shelby Iwamoto

Approval for Fall 2023 is pending BOR and WSCUC Approval.

1/04/2023 1:55 PM

— Cheri Keli'i-Marumoto

Changes

- Start Date
- 1.2) Program Description
- 1.5) Department
- 2.1) Minimum Number of Credits
- 2.2) Minimum GPA

Show All ▼

Program Title

Data Science, BS

Admin Use Only

Program Code

P) Proposal Details

P.1) This is a proposal for:

Modification of an existing undergraduate or graduate program, degree, minor, or certificate

P.2) Proposal Summary

We are submitting a ***provisional program proposal** for the Data Science major. We already have an approved ATP and want to begin the campus review through Kauli Curriculum Management (as requested by Shelby Iwamoto). We have attached the provisional program form, program outline, 4-year map, and approval from department chairs whose courses are included.

P.3) Proposal Rationale/Justification

If approved, this provisional program proposal will allow us to hopefully begin actually offering the major in the near future, allowing students to major in data science at UH Hilo.

P.4) Related Course(s)

New courses:

DATA 101 - Proposal Submitted

MATH 211 - Proposal Submitted

DATA 315 - Proposal Submitted

DATA 495 - Proposal submitted

DATA 490 - Proposal Submitted

DATA/QBA 465 Text Mining for Behavior and Social Sciences - Proposed Modification submitted

DATA 470 3D Mapping of Ecosystems - Proposal Submitted

P.5) Course(s) from Other Departments

Yes

Courses

- MATH 241 Calculus 1 (4)
- MATH 211 Matrix Algebra With Applications (3)
- CS 475 Data Visualization (3)
- CS 475 Data Visualization Lab (1)
- CS 350 Systems Programming (3)
- CS 440 Artificial Intelligence (3)
- CS 422 Database Analytics (3)
- QBA 260 Business Statistics (3)
- QBA 300 Operations Management (3)
- QBA 362 Business Analytics (3)
- QBA 367 Business Analytics and Applications (3)
- MATH 311 Linear Algebra (3)
- MATH 371 Multivariate Stats (3)
- MATH 421 Probability (3)
- MATH 422 Mathematical Statistics (3)
- ASTR/PHYS 260 Computational Physics & Astron (3)
- ASTR/PHYS 260L Computational Phys & Astr Lab (1)
- ASTR 250 Observational Astronomy (3)
- ASTR 250L Observational Astronomy Lab (1)
- ASTR 385 Software Systems for Astronomy (3)

P.6) Proposal Impact(s) - Resources

The existing facilities are sufficient to launch the data science program. In terms of staffing, assuming the two new CS hires are successful, we do not anticipate needing new faculty in the initial years of the program, although as enrollment increases there will likely be a need for a new tenure-track position in MATH, as there is currently only one tenure-track faculty qualified to teach the math-focused data science courses. Lastly, we would request a dedicated data science budget (\$10K./year) to assist with tasks such as purchasing data science software, maintaining data science servers and equipment, generating appropriate branding and advertising material for the program, etc.

The four EPSCoR Data Science hires located in CS, Math, Marine Science, and Business will help reduce the burden of resource allocation as each is obligated to teach at least one course in DS and support the development and success of the program. Even so, the CS and Math departments will share most of the burden as they will need to devote more faculty resources to teach data science courses as opposed to the traditional courses in their discipline. For Computer Science, this will be facilitated by the hiring of additional faculty, which will either help teach these courses directly, or remove the load on existing faculty so that they can teach them. The administration has recently approved two new hires for computer science to better support this program - one instructor and one tenure-track assistant professor. For Math, in the short-term lecturers will be used to free up the needed faculty resources, with a permanent hire in place once demand for the relevant math courses has been established.

P.7) Department Vote

	DATE	APPROVE	NOT APPROVE	ABSTAIN
DEPT VOTE	2022/09/30	5	0	1

P.8) Proposal Supporting Documents

- ASTRChairApproval.pdf
- MathChairApproval.pdf
- CSChairApproval.pdf
- BusinessChairApproval.pdf
- DSVoteProgram.pdf

P.9) Proposer Notes

See attachments for the vote among data science faculty, and the approval of the four relevant chairs (MATH, CS, ASTR, and Business)

See attached documents for Provisional Program Proposal form, data science major outline, and 4-year plan documents.

Michael Peterson did not respond to the email thread holding the vote (hence the one abstention recorded), which was probably an oversight. That said, he did signal his approval of the program in his role as CS department chair.

1) Program Information

1.1) Degree Type

Bachelor of Science

Proposed

1.2) Program Description

Data science is the study of how to collect, process, store, analyze, and visualize data to solve real-world problems.

Students who study data science will be well-equipped to tackle problems in any number of domains, utilizing the power of data to drive decisions and instigate change, whether it be better understanding the world around us, attacking climate change, or making better business decisions. The study of data science involves growing three skillsets: computational skills, statistical skills, and domain expertise. Our major offers in-depth exploration of each of these components: on the computational side, students receive training in programming, machine learning, processing various kinds of data (images, text, etc.). On the statistical side, students receive training that goes beyond basic statistical analysis as well to include more advanced techniques such as matrix algebra and Bayesian statistics. Finally, students receive training in a domain of

their choice - the program currently offers four tracks (Business, Astronomy, Computational, and Statistical) to give students more in-depth training in a specific area. Data scientists are in high demand on the job market and this is the perfect major for someone who wants to discover new ways to solve challenging problems in science, business, and tech.

The data science program at UH Hilo is designed to be an interdisciplinary major which teaches students the skills needed to collect, process, store, analyze, and visualize data to drive real-world decisions. The core courses in our Data Science major teach students the computational and statistical principles needed to effectively work with data of various kinds (including images, text, tabular data, etc.) Our proposed major contains four tracks (Business, Astronomy, Computational, and Statistical) in which students receive more in-depth training needed to tackle a data from a certain domain. We plan to add more tracks to the major over time as student interest increases. At just under 50 credits, Data Science is designed to be an excellent double major option as well as being attractive to transfer students and technically-minded students as a single major.

Program Objectives:

- To provide students with practical hands-on training and experience in using data science tools to solve real-world problems. Students will learn how to acquire, archive, analyze and report on data with a variety of techniques encompassing statistical, machine learning, and other approaches.
- To grow a 21st century workforce equipped with data science skills in Hawaii and beyond. There is a growing need for these skills in almost every sector, but most pressingly in business and the natural sciences.
- To provide students with a deeper understanding of the mathematical and computer science foundations of data science, including probability, statistics, computer vision, machine learning, and artificial intelligence.
- To create a cross-disciplinary environment in which students learn to apply their data science skills in a variety of domains to nurture academic collaboration and growth.

Program Learning Outcomes: Students who complete a data science major will be able to:

1. Understand the mathematical foundations of data science, including probabilistic reasoning as well as Bayesian and Frequentist statistics.
2. Independently create computer programs which analyze complicated real-world datasets, as well as modify data science programs written by others
3. Apply machine learning and artificial intelligence to effectively solve real-world problems
4. Identify the optimal data science tools required for various analytical procedures and data visualization tasks.
5. Understand the limits of data science, e.g. what kinds of questions cannot be answered
6. Manipulate common data types: e.g., traditional experiments, image collections, natural language text, and real-time time-series processing.
7. Recognize privacy and security issues surrounding data of various types.
8. Retrieve and store data in different formats, using databases as and popular file formats
9. Draw on knowledge from numerous disciplines, including application areas outside of mathematics and computer science such as business and marine science.
10. Use existing data science and informatics software effectively
11. Communicate insights from large datasets to others, in written, oral, and visual form

Existing

1.2) Program Description

Data Science Undergraduate Major B.S., approximately 40 credits required for the major, 120 total credits for the degree.

The major will be deeply interdisciplinary: The Computer Science and Mathematics departments will offer many of the core statistical and computational courses, but there will be classes in numerous other departments focusing on applications

common in a variety of academic domains. The major is intended to be an excellent double major, drawing students desiring additional analytical skills. This effort was seeded by the hiring of four data-science-focused faculty in departments across the university, but will likely need additional faculty resources to reach its full potential.

Program Objectives:

- To provide students with practical hands-on training and experience in using data science tools to solve real-world problems. Students will learn how to acquire, archive, analyze and report on data with a variety of techniques encompassing statistical, machine learning, and other approaches.
- To grow a 21st century workforce equipped with data science skills in Hawaii and beyond. There is a growing need for these skills in almost every sector, but most pressingly in business and the natural sciences.
- To provide students with a deeper understanding of the mathematical and computer science foundations of data science, including probability, statistics, computer vision, machine learning, and artificial intelligence.
- To create a cross-disciplinary environment in which students learn to apply their data science skills in a variety of domains to nurture academic collaboration and growth.

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3. Apply machine learning and artificial intelligence to effectively solve real-world problems
4. Identify the optimal data science tools required for various analytical procedures and data visualization tasks.
5. Understand the limits of data science, e.g. what kinds of questions cannot be answered
6. Manipulate common data types: e.g., traditional experiments, image collections, natural language text, and real-time time-series processing.
7. Recognize privacy and security issues surrounding data of various types.
8. Retrieve and store data in different formats, using databases as and popular file formats
9. Draw on knowledge from numerous disciplines, including application areas outside of mathematics and computer science such as business and marine science.
10. Use existing data science and informatics software effectively
11. Communicate insights from large datasets to others, in written, oral, and visual forms.

Proposed

1.3) Program Catalog Description

Data Science Recommended GE courses that serve as potential entryways (optional for degree):

- DATA 101 Awesome data science skills (3)
- DATA/QBA 200 Intro to Business Analytics (3)

Requirements for the B.S. in Data Science: (47-48 Credits)

Math Foundations: (7 credits)

- MATH 241 Calculus 1 (4)
- MATH 211 Matrix Algebra With Applications (3)

Core Requirements: (23 Credits)

- DATA/CS 171 Data Science Fundamentals in R (3)
- DATA/CS 172 Python for Data Analysis (3)
- DATA/CS 272 Machine Learning for Data Sci (3)
- DATA/MATH 271 Applied Statistics with R (3)
- DATA 315 Mathematical Methods for Data Sciences (3)
- CS 475 Data Visualization (3)
- CS 475 Data Visualization Lab (1)

- DATA 495 Data Science Seminar (1)
- DATA 490 Data Science Capstone (3)

Data Management and Analysis: Choose one course from the below (3 Credits)

- DATA/CS 373 Data Security & Privacy (3)
- DATA 474 Applied Informatics (3)
- DATA/CS 370 Data Management (3)
- DATA/MATH 371 Multivariate Modeling with R (3)

Types of Data: Choose two courses from the below (6 Credits)

- DATA/CS 483 Computer Vision (3)
- DATA/QBA 465 Text Mining for Behavior and Social Sciences (3)
- DATA 470 3D Mapping of Ecosystems (3)

Domain Emphases (8-9 Credits)

Pick one of the following "domain emphases:

Computational Track (9 Credits)

- CS 350 Systems Programming (3)
- CS 440 Artificial Intelligence (3)
- CS 422 Database Analytics (3)

Business Track: (9 Credits)

Choose 9 credits from:

- QBA 260 Business Statistics (3)
- QBA 300 Operations Management (3)
- QBA 362 Business Analytics (3)
- QBA 367 Business Analytics and Applications (3)

Statistics Track (9 Credits)

Choose 9 credits from:

- MATH 311 Linear Algebra (3)
- MATH 371 Multivariate Stats (3) (See notes)
- MATH 421 Probability (3)
- MATH 422 Mathematical Statistics (3)

Astronomy Track (8 Credits)

Choose 8 credits from:

- ASTR/PHYS 260 Computational Physics & Astron (3)
- ASTR/PHYS 260L Computational Phys & Astr Lab (1)
- ASTR 250 Observational Astronomy (3)
- ASTR 250L Observational Astronomy Lab (1)
- ASTR 385 Software Systems for Astronomy (3)

Program Notes:

1. A C or better is required in all courses required for the major
2. At least 45 credits must be earned in courses at the 300- and 400- level.
3. Math 371 not eligible for the statistics track if already taken for the data management and analysis course.

See attached documents for Provisional Program Proposal form, data science major outline, and 4-year plan documents.

Existing

1.3) Program Catalog Description

TBD

1.4) College

College of Natural and Health Sciences (CNHS)

Proposed

1.5) Department

Computer Science (CS)

Existing

1.5) Department

Data Science (Interdisciplinary)

2) Program Requirements

Proposed

2.1) Minimum Number of Credits

Data Science Undergraduate Major B.S., 47 credits required for the major, 120 total credits for the degree.

Existing

2.1) Minimum Number of Credits

Data Science Undergraduate Major B.S., approximately 40 credits required for the major, 120 total credits for the degree.

Proposed

2.2) Minimum GPA

Courses require a minimum grade of C (2.0) in order to count for the major requirements. Therefore the minimum acceptable GPA is 2.0.

Existing

2.2) Minimum GPA

The Banner default (2.0).

Proposed

2.3) Minimum Acceptable Grade

Courses require a minimum grade of C (2.0) in order to count for the major requirements.

Existing

2.3) Minimum Acceptable Grade

The Banner default (1.0).

Proposed

2.4) Program Notes

Attachments include:

- The Data Science ATP, approved 04/01/2020
- The document confirming final approval of the ATP
- The outline of the major, showing course requirements and the four tracks
- An example 4-year plan for the major
- Provisional Program proposal form

Existing

2.4) Program Notes

3) Attachments

Proposed

- Data Science ATP 040120.docx
- Approval of ATP BS in Data Science 4.20.20 VPAPP Signed.pdf
- Data Science Major Outline-Clean-2.docx
- Data Science BS 23-24 4 year map draft.xlsx
- ProgramProposalDataScience.docx

Existing

- Data Science Approval to Plan (ATP)(1).docx

MINUTES
BOARD OF REGENTS MEETING
MAY 18, 2023

I. CALL TO ORDER

Chair Moore called the meeting to order at 10:00 a.m. on Thursday, May 18, 2023, at Honolulu Community College, Norman W.H. Loui Conference Center, Building 2, Room 201, 874 Dillingham Boulevard, Honolulu, Hawai'i 96817.

Quorum (11): Chair Randy Moore; Vice-Chair Alapaki Nahale-a; Vice-Chair Ernest Wilson; Regent Eugene Bal; Regent William Haning; Regent Wayne Higaki; Regent Gabriel Lee; Regent Laurel Loo; Regent Abigail Mawae; Regent Diane Paloma; and Regent Laurie Tochiki.

Others in attendance: President David Lassner; Vice President (VP) for Administration Jan Gouveia; VP for Academic Strategy Debora Halbert; VP for Legal Affairs/University General Counsel Carrie Okinaga; VP for Information Technology/Chief Information Officer Garret Yoshimi; VP for Budget and Finance/Chief Financial Officer Kalbert Young; VP for Advancement/University of Hawai'i Foundation (UHF) Chief Executive Officer Tim Dolan; University of Hawai'i (UH) at Mānoa (UHM) Provost Michael Bruno; UH Hilo (UHH) Chancellor Bonnie Irwin; UH West O'ahu (UHWO) Chancellor Maenette Benham; Honolulu Community College (HonCC) Chancellor Karen Lee; Interim Associate Vice President for Academic Affairs for the UH Community College System Della Teraoka; Executive Administrator and Secretary of the Board of Regents Yvonne Lau; and others as noted.

II. APPROVAL OF THE MINUTES

Chair Moore inquired if there were any corrections to the minutes of the April 20, 2023, meeting which had been distributed. Hearing none, the minutes were approved.

III. PUBLIC COMMENT PERIOD

Board Secretary Lau announced that the Board Office received written comments from Albert D.K. Chee, Jr. supporting the appointment of Craig Angelos as the UHM Athletics Director.

Late written comments regarding the reclassification of faculty and post tenure review were received from Jonathan K. Osorio, Dean of Hawai'i inuiākea School of Hawaiian Knowledge.

Late written comments regarding the appointment of a new athletics director and UHM Athletics's first aid program were received from Claire Santos.

Written testimony may be viewed at the of the Board of Regents website as follows:

[Written Testimony Comments Received](#)

CTECAC, and MKSOA, which were contained in the materials packet.

VIII. AGENDA ITEMS

A. Consent Agenda

- 1. Approval of Provisional Status for the Bachelor of Science in Data Science at the University of Hawai'i at Hilo**
- 2. Approval to Change the Advanced Professional Certificate in Hospitality Operations Management from Provisional to Established at Kapi'olani Community College**
- 3. Approval to Change the Associate in Science in Sustainable Agriculture Degree from Provisional to Established at Leeward Community College**
- 4. Approval to Change the Associate in Science in Integrated Industrial Technology Degree from Provisional to Established at Leeward Community College**
- 5. Approval of Established Status for the Bachelor of Science in Dietetics at the University of Hawai'i at Mānoa**
- 6. Approval of Established Status for the Master of Asian International Affairs at the University of Hawai'i at Mānoa**
- 7. Approval of Established Status for the Master of Landscape Architecture at the University of Hawai'i at Mānoa**
- 8. Approval of an Indemnification Provision in a Subaward Issued by Rochester Institute of Technology ("RIT") to the University of Hawai'i**

Vice-Chair Wilson moved to approve the consent agenda, seconded by Vice-Chair Nahale-a, and the motion carried with all members present voting in the affirmative.

B. Approval of the Establishment and Naming of the Jerry H. Bentley Distinguished Professorship in World History at UHM, College of Arts, Languages, and Letters

Provost Bruno presented information on a financial commitment of \$500,000 received from Carol Mon Lee to establish and name a Distinguished Professorship in World History within the College of Arts, Languages, and Letters at UHM in memory of her late husband Jerry H. Bentley. He stated that the purpose of establishing this distinguished professorship is to recruit, retain, and support faculty of the highest caliber in the discipline of World History to serve in the Department of History at the College of Arts, Languages, and Letters.

Regent Mawae moved to approve the establishment and naming of the Jerry H. Bentley Distinguished Professorship in World History in the College of Arts, Languages,



Grant Kim <grantkim@hawaii.edu>

Fwd: WSCUC: Staff Action Report UHH Bachelor of Science in Data Science

9 messages

Shelby Iwamoto <shelbyw@hawaii.edu>
To: Grant Kim <grantkim@hawaii.edu>

Mon, Oct 23, 2023 at 10:01 AM

Hi Grant,

Would this email chain suffice to state that WSCUC changed the CIP code for the BS- Data Science on their end to 30.7001? Our ALO sent over the feedback that we both provided and they agreed to update the CIP.

Thanks,
Shelby

----- Forwarded message -----

From: **Seri Luangphinit** <seri@hawaii.edu>
Date: Tue, Sep 12, 2023 at 11:20 AM
Subject: Fwd: WSCUC: Staff Action Report UHH Bachelor of Science in Data Science
To: Shelby Iwamoto <shelbyw@hawaii.edu>

Done.

Seri I. Luangphinit, Ph.D.
Professor of English
Accreditation Liaison Officer
University of Hawai'i at Hilo
[200 W. Kawili Street](#)
[Hilo, Hawaii 96720](#)

Begin forwarded message:

From: Konami Chisholm <kchisholm@wscuc.org>
Date: September 13, 2023 at 3:46:13 AM GMT+9
To: Seri Luangphinit <seri@hawaii.edu>
Subject: RE: WSCUC: Staff Action Report UHH Bachelor of Science in Data Science

Good evening Seri,

I have made the change to the BS Data Science CIP number as requested in the letter:

30.7001

Have a pleasant day/evening 😊

Thank you,

L. Konami Chisholm

Accreditation Resources Coordinator – Substantive Change

WASC Senior College and University Commission

Alameda, CA 94501

510.995.3173

www.wscuc.org

<image001.png>

From: Seri Luangphinit seri@hawaii.edu

Sent: Thursday, September 7, 2023 5:18 PM

To: Konami Chisholm kchisholm@wscuc.org

Subject: Re: WSCUC: Staff Action Report UHH Bachelor of Science in Data Science

Hi Konami,

Attached is an email I received from the Academic Curriculum and Graduate Program Officer, Shelby Iwamoto, who received an email from the University of Hawaii System IR Office (IRAPO) in Honolulu asking if the number could be changed. They give descriptions under the two different CIP and feel that 30.7001 is a better fit.

Let me know if this is possible. Many thanks, Seri

L. Konami Chisholm

Accreditation Resources Coordinator – Substantive Change

WASC Senior College and University Commission

Alameda, CA 94501

510.995.3173

www.wscuc.org

On Fri, Jul 21, 2023 at 12:43 AM Konami Chisholm <kchisholm@wscuc.org> wrote:



Dear Seri,

The following staff Sub Change proposal has been approved:

University of Hawai'i at Hilo
Bachelor of Science in Data Science
New Degree

Please print the attached report and retain for your permanent records.

Program Implementation

You are required to confirm implementation of the program in order for the program or location to be listed on the WSCUC website for purposes of financial aid eligibility verification by the U.S. Department of Education.

Login to the [Accreditation Management Portal](#) and mark this program as Active within 30 days of implementation. Failure to report implementation may result in the suspension of financial aid eligibility for enrolled students.

Thank you,

L. Konami Chisholm

Accreditation Resources Coordinator – Substantive Change

WASC Senior College and University Commission

Alameda, CA 94501

510.995.3173

www.wscuc.org

REF: StaffSub3

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Seri I. Luangphinit
Professor of English
Accreditation Liaison Officer (WASC)
University of Hawai'i at Hilo
[200 W. Kawili Street](#)
[Hilo, Hawai'i 96720](#)

Office: Kanaka'ole 215
Phone: (808) 932-7217
Fax: (808) 932-7214

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--

Seri I. Luangphinit
Professor of English
Accreditation Liaison Officer (WASC)



Grant Kim <grantkim@hawaii.edu>

Subject Certificate in Data Science (DSCI-SC) - Requested CIP Change

April Nozomi Quinn <agoodwin@hawaii.edu>

Wed, Nov 1, 2023 at 9:51 AM

To: Guylaine Poisson <guylaine@hawaii.edu>

Cc: Pheng Xiong <pxiong@hawaii.edu>, Scott Robertson <scottpr@hawaii.edu>, Alan Rosenfeld <alan3@hawaii.edu>, Debora Halbert <halbert@hawaii.edu>, Grant Kim <grantkim@hawaii.edu>, Kara Plamann Wagoner <karapw@hawaii.edu>

Great, thanks, Guylaine! If Scott does not object, we will authorize the change and will be notified by IRAPO once it has been finalized.

Thanks all!

April

April Nozomi Quinn, PhD
Director of Program Development and Review
Office of the Vice Provost for Academic Excellence

University of Hawaii at Mānoa
Office: (808) 956-4568
<http://www.manoa.hawaii.edu>

On Wed, Nov 1, 2023 at 9:14 AM Guylaine Poisson <guylaine@hawaii.edu> wrote:

Hi April

Yes I think this is a great idea.

Guylaine

On Nov 1, 2023, at 8:21 AM, April Nozomi Quinn <agoodwin@hawaii.edu> wrote:

Aloha,

Thank you all for your thoughts. I am adding Guylaine and Scott for their thoughts on this change.

Guylaine and Scott- Please see the message below. Are you amenable to revising the CIP code for the UG Cert in Data Science from:

CIP 11.0701 Computer Science

A program that focuses on computer theory, computing problems and solutions, and the design of computer systems and user interfaces from a scientific perspective. Includes instruction in the principles of computational science, computer development and programming, and applications to a variety of end-use situations

to:

CIP 30.7001 Data Science

A program that focuses on the analysis of large scale data sources from the interdisciplinary perspectives of applied statistics, computer science, data storage, data representation, data modeling, mathematics, and statistics. Includes instruction in computer algorithms, computer programming, data management, data mining, information policy, information retrieval, mathematical modeling, quantitative analysis, statistics, trend spotting, and visual analytics.

It seems reasonable to me and Max, but please let us know if you have any concerns before we green light the change. Also, could you send a list of current students in the program? I believe we will need to manually move them over to the new code once the change is made.

Thank you!

April

April Nozomi Quinn, PhD
Director of Program Development and Review
Office of the Vice Provost for Academic Excellence

University of Hawaii at Mānoa
Office: (808) 956-4568
<http://www.manoa.hawaii.edu>

On Wed, Nov 1, 2023 at 4:18 AM Pheng Xiong <pxiong@hawaii.edu> wrote:

Hi Grant,

I would support this change, but I believe we should confer with the Data Science program here at UH Manoa first. Secondly, we should also confirm with them that there are no students in the program. I know that some times we are not told who is pursuing a certificate until the time of graduation.

Can this wait until we reach out to the unit? April, is this something you can help with?

Thanks everyone.

Pheng Xiong, M. Ed.
University Registrar
University of Hawai'i at Manoa

Sent from my mobile phone.

On Tue, Oct 31, 2023 at 8:56 PM Alan Rosenfeld <alan3@hawaii.edu> wrote:

Hi everyone,

Thanks for catching this one, Grant! I just wanted to chime in and say that this sounds like a great opportunity for UH Mānoa, since the proposed CIP code 30.7001 is indeed a perfect fit for your certificate. If you (UHM) elect to make this change, your ALO should be able to simply update the CIP Code inside of the Accreditation Management Portal (AMP), which is a simple process.

Warmest regards,
Alan

Alan Rosenfeld, Ph.D.
Associate Vice President for Academic Programs and Policy
University of Hawai'i System

"Who studies gladly for a single hour will learn vastly more than one who studies glumly for hours on end." - Chaim ben Yitzchok of Volozhin

On Tue, Oct 31, 2023 at 10:42 AM Grant Kim <grantkim@hawaii.edu> wrote:

Hi April and Max,

UH Hilo received BOR's approval (May 4, 2023) for a BS in Data Science, with WSCUC approval for assigning a STEM CIP 30.7001 Data Science. You currently have an active Subject Certificate in Data Science (DSCI-SC) that is assigned CIP 11.0701 Computer Science. Rather than create a new Major code for Data Science for UH Hilo, we are proposing to change the existing Data Science (DSCI) CIP from 11.0701 Computer Science to 30.7001 Data Science. We request your approval in this change.

Typically, we would create a new Major code for a new CIP, but in this unique case, while your Subject Certificate in Data Science is active in Banner, there has been no admissions, enrollment or degrees, at least since the start of Banner; and this newly introduced STEM CIP closer matches both UH Manoa's and UH Hilo's Data Science program curricula.

Let us know if you have any questions.

Best,
Grant

References:

May 4, 2023 BOR's minutes:

<https://www.hawaii.edu/offices/bor/academic-2015/minute/202305041100.committee.pdf>

Federal Registry notice of STEM CIP 30.7001 Data Science:
(<https://www.federalregister.gov/documents/2022/01/21/2022-01188/update-to-the-department-of-homeland-security-stem-designated-degree-program-list>)

NCES Classification of Instructional Programs
(CIP), <https://nces.ed.gov/ipeds/cipcode>:

CIP 11.0701 Computer Science

A program that focuses on computer theory, computing problems and solutions, and the design of computer systems and user interfaces from a scientific perspective. Includes instruction in the principles of computational science, computer development and programming, and applications to a variety of end-use situations

CIP 30.7001 Data Science

A program that focuses on the analysis of large scale data sources from the interdisciplinary perspectives of applied statistics, computer science, data storage, data representation, data modeling, mathematics, and statistics. Includes instruction in computer algorithms, computer programming, data management, data mining, information policy, information retrieval, mathematical modeling, quantitative analysis, statistics, trend spotting, and visual analytics.