

New Program Code Modify Program Code

Date: _____

REQUESTOR CONTACT INFORMATION

Name _____ Campus _____
 Title _____ Email _____
 Office/Dept _____ Phone _____

NEW PROGRAM CODE TO CREATE

Institution _____ Campus _____
 Level _____ Effective Term _____

	Code (Max. Characters)	Description	Check if requesting new code:
College	(2) _____	_____	<input type="checkbox"/> See Banner form STVCOLL
Department	(4) _____	_____	<input type="checkbox"/> See Banner form STVDEPT
Degree/Certificate	(6) _____	_____	<input type="checkbox"/> See Banner form STVDEGC
Major	(4) _____	_____	<input type="checkbox"/> See Banner form STVMAJR
Concentration	(4) CI _____	_____	<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: _____

If new major, please list the BOR's approved Classification of Instructional Programs (CIP) 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.

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

IRAO USE ONLY: DATE RECEIVED

ADDITIONAL COMMENTS (for modifying existing program codes, specify the term to turn on/off the online application, the recruitment/admission term, and the general student/history/degree term.)

ATTACHMENTS

BOR Approved: Sole-credential Certificates, Associate (excluding ATS), 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.

Registrar
(Print Name)

Financial Aid Officer
(Print Name)

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

Della Teraoka

Jerilynn Enokawa
Signature Date

Jennifer Bradley
Signature Date

Della Teraoka 2/3/2021
Signature Date



UNIVERSITY *of* HAWAII'
KAPĪ'OLANI
COMMUNITY COLLEGE

January 5, 2021

TO: Erika Lacro
University of Hawai'i Vice President for Community Colleges

FROM: Louise Pagotto
Chancellor, Kapi'olani Community College

SUBJECT: Program Code Request for the New Certificate of Competence in Data Science

Kapi'olani Community College is submitting a program code request for the new Certificate of Competence in Data Science under the Associate in Science degree in Information Technology, to become active in Spring 2021.

The proposed new code is CO-DS.

Approved/Not Approved

Erika Lacro, UHCC VP

CO-DS

CO-Data Science Kapi'olani

Current | Fall 2020 – Indefinite

BANNER CODE FOR PROGRAM ⓘ

CO-DS

BANNER TITLE FOR PROGRAM ⓘ

CO-Data Science Kapi'olani

CIP CODE FOR PROGRAM ⓘ

A.) General Catalog Information (‘Ike Mo‘oha‘awina)

A.1) PROGRAM TITLE (PO‘O PAPAHAHA) ⓘ

Certificate of Competence - Data Science

A.2) PROGRAM LEVEL TYPE (KŪLANA PAPAHAHA) ⓘ

Certificate

A.3) DEGREE TYPE (‘ANO O KE KĒKELĒ) ⓘ

Certificate of Competence

A.4) PROGRAM DESCRIPTION FOR CATALOG (HULIKO‘A PAPA NO KA MO‘OHA‘AWINA) ⓘ

The Certificate of Competence in Data Science is an outcomes based program designed for the novice or professional information technology worker who has little to no experience in the field of data science. This certificate is appropriate for upgrading the database and data analytical skills of industry members or for a focus for information technology AS students. The certificate includes current data pre-processing and analysis issues, concepts, and practices.

A.5) CAREER OPTIONS FOR CATALOG (NĀ KOHO ‘OIHANA NO KA MO‘OHA‘AWINA) ⓘ

Appropriate for upgrading the data pre-processing and analysis skills of industry members

A.6) CATALOG GRID

- CO-DS.docx
- corected CO-DS.docx

A.7) CURRICULUM GRID COMMENTS (MANA‘O KŪ PAPA HA‘AWINA) ⓘ

The issuance of a Certificate of Competence requires that the student must earn a grade point ratio (GPR) of 2.0 or higher for all courses required in the certificate.

Please note: A grade of "C" or higher is required in all applicable Information Technology courses in order to fulfill the requirements for the certificate. ITS courses may be offered as 8 or 16-week sessions.

A.8) MISSION STATEMENT (ALA NU‘UKIA) ⓘ**A.9) PROGRAM ACCREDITATION INFORMATION (‘IKEPILI HUI ‘ĀPONO POLOKALAMU)** ⓘ**A.10) APPLICATION PERIOD TO BE LISTED IN THE CATALOG** ⓘ

B.) Program Learning Outcomes

B.1) PROGRAM LEARNING OUTCOMES (PAPAHANA KŪLE'A 'LKE) ⓘ

AS - Information Technology - Configure and administer database servers to support contemporary business environments.

LINKED COURSE OUTCOMES

-- None --

AS - Information Technology - Learn future technologies through acquired foundational skills and knowledge and employ them in new business environments.

LINKED COURSE OUTCOMES

-- None --

AS - Information Technology - Design and develop software solutions for contemporary business environments by employing appropriate problem solving strategies.

LINKED COURSE OUTCOMES

-- None --

CO - Data Science Kapi'olani - Utilize Data Analytics tools and techniques to create, manage, explore, and analyze large, complex datasets.

LINKED COURSE OUTCOMES

-- None --

C.) Program Requirements

C.1) PROGRAM ENTRANCE REQUIREMENTS/PREREQUISITES (KOINA KOMO) ?

Completed ICS 100 or ICS 101.

**First Semester****9**

Total Credits

- Earned at least 3 credits from the following:
 - BUS 100 - Using Mathematics to Solve Business Problems (3)
 - MATH 103 - College Algebra (3)

Required Courses for Major or Concentration**6**

Total Credits

- Earned at least 6 credits from: Courses from -
 - ITS 128 - Introduction to Problem Solving and the Programming Process (3)
 - ITS 129 - Introduction to Databases (3)

Must earn minimum grade of C in all selected courses

Second Semester**6**

Total Credits

No Rules

Required Courses for Major or Concentration**6**

Total Credits

- Earned at least 6 credits from: Courses from -
 - ITS 149R - Database Administration I: Introduction to Data Analytics and R (3)
 - ITS 229P - Professional Database Skills: Database Analytics with Python (3)

Must earn minimum grade of C in all selected courses

Grand Total Credits: 15**C.2) SATISFACTORY PROGRESS REQUIREMENTS (KOINA HOLOMUA KŪPONO) ?**

The minimum required GPR will be set as 2.0 (C) and the minimum acceptable grade will be set as 2.0 (C).



No Rules

C.3) PROGRAM COMPLETION REQUIREMENTS (KOINA PAPAHAHA HO'OPAU) ?

A minimum of 15 credits from the first and second semester sequence of required courses with a grade of "C" or higher.



No Rules

C.4) STAR GPS REGISTRATION PRIORITY LIST

- STAR GPS REGISTRATION PRIORITY - Data Science.doc

D.) BOR Information Pre-Fall 2016 ('Ike Pili Papa o NĀ Kahu Kula)

D.1) PROGRAM JUSTIFICATION (HO'ĀPONO PAPAĀHANA) ?**D.2) PROGRAM MISSION AND OBJECTIVES (PAPAĀHANA ALA NU'UKIA ME KA PAHUHOPU HĀIKI) ?****D.3) PROGRAM CURRICULUM PLAN (MO'OHA'AWINA) ?****D.4) PROGRAM TARGET GROUP (NA WAI E KOMO) ?****D.5) PROGRAM RESOURCES (PONO PAPAĀHANA) ?**

No additional resources are required to implement this program.

D.6) PROGRAM EFFICIENCY (PAPAĀHANA HOLO PONO) ?**D.7) PROGRAM EFFECTIVENESS (PAPAĀHANA KŪLE'A) ?****D.8) ATTACH A BOR SUBMISSION HERE ?****D.9) ATTACH A MEMO CONFIRMING BOR APPROVAL HERE ?****E.) New Academic Programs Fall 2016 and Later**

E.1) PROGRAM PURPOSE AND OUTCOMES**E.1a) DESCRIBE THE PURPOSE OF THE PROPOSED PROGRAM IN TERMS OF MEETING STUDENT, COMMUNITY OR STATE NEEDS**

The Certificate of Competence in Data Science is an outcomes based program designed for the novice or professional information technology worker who has little to no experience in utilizing databases in the administration of Data Science activities such as data pre-processing, data analysis, and data mining. . This certificate is appropriate for upgrading the skills of industry members or for a focus for information technology Associate of Science students.

E.1b) IDENTIFY THE PROGRAM OUTCOMES, WHAT THE STUDENT WILL KNOW AND BE ABLE TO DO AT THE COMPLETION OF THE PROGRAM.

Upon successful completion of the Certificate of Competence in Data Science, the student should have met the following Student Learning Outcomes:

1. Describe what Data Science is and the skill sets needed;
2. Explain basic Data Science terminology.
3. Describe traditional and unstructured data types.
4. Gain a firm understand of the use of Standard Query Language.
5. Utilize R for very basic modeling and analysis.
6. Utilize Python for data mining and data retrieval.

E.1c) DESCRIBE THE FIT OF THE PROPOSED PROGRAM WITH SYSTEM/CAMPUS MISSION AND STATE NEED.**E.2) PROGRAM ORGANIZATION**

E.2a) PROVIDES A DESCRIPTION OF CURRICULUM ORGANIZATION, TOTAL CREDITS TO COMPLETE THE PROGRAM INCLUDING ALL PREREQUISITE REQUIREMENTS, ADMISSION POLICIES, ADVISING, AND OTHER ASPECTS OF THE PROGRAM, WITH REFERENCE TO ITS GOALS/OUTCOMES.

E.2b) INCLUDES AN ACADEMIC MAP FOR CERTIFICATE OF ACHIEVEMENT, ASSOCIATE AND BACHELOR DEGREES THAT DEMONSTRATES ON TIME COMPLETION.

E.2c) PROVIDES JUSTIFICATION FOR A PROGRAM THAT IS MORE THAN 30 CREDITS FOR A CERTIFICATE OF ACHIEVEMENT OR 60 CREDITS FOR AN ASSOCIATE DEGREE OR 120 CREDITS FOR A BACHELOR'S DEGREE.

E.2d) DESCRIBES PROVISIONS FOR ARTICULATION WITH UH COMMUNITY COLLEGE DEGREES FOR BACHELOR'S DEGREES.

E.3) STUDENT DEMAND

E.3a) DESCRIBES THE PROFILE OF STUDENTS WHO WILL LIKELY ENROLL IN THE PROGRAM AND INCLUDES A DISCUSSION ON THE LIKELIHOOD OF THE PROGRAM ATTRACTING NEW STUDENTS TO THE CAMPUS OR EXISTING STUDENTS.

E.3b) PROVIDES EVIDENCE OF STUDENT INTEREST (I.E. NEEDS ASSESSMENT).

E.3c) INCLUDES AN ESTIMATE NUMBER OF MAJORS PER YEAR WITH AN EXPLANATION ON HOW THIS NUMBER WAS DETERMINED.

E.4) PROGRAM RESOURCES AND EFFICIENCY

E.4a) DESCRIBE RESOURCES REQUIRED FOR PROGRAM IMPLEMENTATION AND FIRST CYCLE OPERATION.

E.4b) DESCRIBE THE EXPECTED SOURCES OF FUNDS, INCLUDING SOURCES OF REALLOCATED FUNDS.

E.4c) COMPARE ANTICIPATED COST PER SSH, COST PER MAJOR, SSH/FACULTY, AVERAGE CLASS SIZE OR OTHER QUANTITATIVE MEASURE WITH OTHER PROGRAMS IN THE COLLEGE AND SIMILAR PROGRAMS ON OTHER UH CAMPUSES.

E.4d) LIST SIMILAR PROGRAMS AT OTHER UH CAMPUSES AND DESCRIBE HOW THE PROPOSED PROGRAM DIFFERS OR IS SIMILAR TO THESE PROGRAMS. PROVIDE THE RATIONALE FOR THE NEW PROGRAM IF A SIMILAR PROGRAM OR PROGRAMS EXIST.

E.5) PROGRAM EFFECTIVENESS

E.5a) DESCRIBE THE PLAN FOR ASSESSING THE QUALITY OF STUDENT LEARNING.

E.5b) IDENTIFY RELEVANT PROGRAM ACCREDITATION AND PLANS TO MEET ACCREDITATION REQUIREMENTS.

E.6) ATTACH A COMPLETED DOCUMENT WITH ALL OF THE INFORMATION FROM 1-5 ABOVE. NOTE THAT THE PAGE LIMIT IS 15 PAGES. ⓘ

F. Attachments (Pāku'ina)

F.1) ATTACH MEMO OR OTHER DOCUMENT(S) FROM ACCREDITING BODY HERE (IF APPLICABLE).

F.2) ATTACH MISCELLANEOUS DOCUMENT(S) HERE. ⓘ

H.) Instructions
