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MTVCOMP	

University of Hawai'i
Code Request Form for Academic Programs

NEW OR MODIFIED SUBJECT CODE

Date: 01/20/2021

REQUESTOR CONTACT INFORMATION

Name Kathlen Lee Campus Kauai CC
 Title Educational Specialist Email kathlen@hawaii.edu
 Office/Dept Academic Affairs Phone 808-245-8204

- NEW SUBJECT CODE USE AT INSTITUTION**
 MODIFY SUBJECT CODE USE AT INSTITUTION

Institution Kauai CC Effective Term Fall 2021

	Code (Max. Characters)	Description (30 characters max)	Check if requesting new code:
College	(2) <u>IN</u>	<u>Instructional</u>	<input type="checkbox"/> See Banner form STV_COLL
Division	(4) <u>TT</u>	<u>Trade Technology</u>	<input type="checkbox"/> See Banner form STV_DIVS
Department	(4) <u>QM</u>	<u>Quantitative Methods</u>	<input type="checkbox"/> See Banner form STV_DEPT
Subject	(4) <u>QM</u>	<u>Quantitative Methods</u>	<input type="checkbox"/> See Banner form STV_SUBJ

Select one:
 General & Pre-Professional (GPP) or
 Career & Technical (CTE)

Explain the reason for the new subject code (i.e. - replacing an existing subject code (specify), revised name, new program, ...):
To provide trade students with quantitative method skills needed for trade technology programs.

ATTACHMENTS

Memo with appropriate campus approval (i.e. Campus Curriculum Committee, Vice Chancellor for Academic Affairs, etc.)

VERIFICATIONS

Registrar:

Kailana Soto *Kailana Soto* 1/20/21
 Print Name Signature Date

Financial Aid Officer:

Jeff Anderson *Jeff Anderson* 1/22/21
 Print Name Signature Date

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

Della Teraoka *Della Teraoka* 2/8/2021
 Print Name Signature Date

QM 108

Quantitative Methods for the Trades

InWorkflow | Fall 2021

Proposal Information

Workflow Status

> Post Approval Node > VCAA Secretary Notification
Evelyn Kamai - Review

Proposer

- ✓ James D Andrews (Creator)
- ✓ **Justin Carvalho (Submitter)**
Submitted 9-6-2019
- ✓ **Justin Carvalho**
Submitted 9-6-2019
- ✓ **James D Andrews**
Submitted 9-1-2020

QM108 CSLO's were approved as CARP
197 Molly Ka'imi Summers 09/30/2019

(Assessment Committee) \\ Assessment Coordinator

- ✓ **Candace Tabuchi**
Approved 9-14-2020
-

Division (Trade Technology) \\ Division Chair/Director

- ✓ **Gordon I Talbo**
Approved 9-14-2020
-

(Curriculum Committee) \\ Curriculum Level FYI

- ✉ Kathlen Lee
 - ✉ Evelyn Kamai
-

(Curriculum Committee) \\ Curriculum Chair/Co-chair

- ✓ **James D Andrews**
Approved 10-30-2020
Approved 10/30/2020 by CC with the
opposition of SAM
 - Alexis Erum
-

(CO Proposal Check) \\ Reviewers/Editors

- James D Andrews
 - Alexis Erum
 - ✓ **Kathlen Lee**
Approved 11-9-2020
-

(Administration) \\ VCAA

- ✓ **Frankie L Harriss**
Approved 1-9-2021
-

(Administration) \\ Chancellor

- ✓ **Joseph M Daisy**
Approved 1-9-2021
-

(Administration) \\ Institutional Researcher

- ✉ Amanda Fluharty
-

(Post Approval Node) \\ Curriculum Committee Chair/Co-chairs

- ✉ James D Andrews
 - ✉ Wade Tanaka
-

(Post Approval Node) \\ Banner Support

- ✓ **Kathlen Lee**
Approved 1-20-2021
- Banner area OK.
-

(Post Approval Node) \\ VCAA Secretary Notification

Evelyn Kamai

(Post Approval Node) \\ Additional FYI

Wade Tanaka

Kailana Soto

Sarah Shirai

Maritza Medina

Shaunte Sadora

Division (Trade Technology) \\ Division Chair/Director

Gordon I Talbo

Division (Trade Technology) \\ Office Assistant

Donna Smith

Catalog Course Description

CAT: (ADMIN USE) START TERM

Fall 2021

CAT: A.1) PROPOSAL TYPE

NEW course

CAT: 1.1) SUBJECT CODE ⓘ

QM

CAT: 1.2) NUMBER ⓘ

108

CAT: 1.4) TITLE

Quantitative Methods for the Trades

CAT: 1.6) DESCRIPTION

This course covers the quantitative methods, reasoning, and applications necessary to perform tasks and solve problems encountered by Trades students. Topics include computational operations; geometry and measurements; ratio, proportion, and percent; probability and statistics; and trigonometry.

CAT: 2.6) CATALOG REQUISITES

CURRENT:

None.

CAT: 1.7) COMMENTS FOR CATALOG (IA)

This course is for students currently enrolled in a Trades Technology program.

CAT: 1.9) CROSS-LISTED COURSE FOR (IA)

CAT: 1.13) REPEATABILITY - FOR ADDITIONAL CREDIT

No

CAT: B.1) SEMESTER OFFERING

Fall and/or Spring

CAT: B.2) SEMESTER OFFERING FREQUENCY

N/A (offered every year or every semester)

CAT: 1.10) CREDIT OPTION

3

CAT: 1.11) CONTACT HOURS**Semester Type**

Standard Semester (15 weeks)

Activity Type	Hours/Week	Credit Ratio	Contact Hours	Credits
Lecture (1 credit per 1 contact hour)	3	1:1	45	3
Lab (1 credit per 3 contact hours)		1:3	0	0
Lecture/Lab (1 credit per 2 contact hours)		1:2	0	0
	3		45	3

BANNER: 1.12) REPEATABILITY - FOR GRADE REPLACEMENT

Repeatable once (2 attempts / Banner limit = 1)

P: 2.2) APPROVAL OF INSTRUCTOR IS REQUIRED TO ENROLL

No (instructor approval is OPTIONAL; requisite and repeat rules apply)

Proposer/Division

PROPOSER

James D Andrews

DIVISION

Trade Technology

P.1) Initial Start Term (Proposer Request) (I/R)

P.1.A) REQUESTED START TERM

Fall 2021

P.1.B) START TERM EXCEPTION GRANTED (IF APPLICABLE)

(ADMIN USE) NOTES

A) Proposal Type (I/R)

A.1) PROPOSAL TYPE

NEW course

P.2) Proposal Justification (I/R)

P.2.A) JUSTIFICATION FOR PROPOSAL TYPE, INCLUDING MODIFICATIONS (IF APPLICABLE)

The Trades Division has expressed a need for having a course to bridge the gap between general quantitative method skills and the specific skills needed for each of our trades students. Many of our trades students learn best when taught in context and in relation to the skills they are working with in class.

B) Proposal Details

(ADMIN USE) START TERM

Fall 2021

FIVE-YEAR REVIEW CYCLES (Read Only)

2020/21

B.1) TERM OFFERING(S)

Fall and/or Spring

B.2) FREQUENCY OF OFFERING(S)

N/A (offered every year or every semester)

SIMILAR COURSES AT OTHER UH CAMPUSES (AUTOMATICALLY GENERATED)

No Course Matches

B.3) SIMILAR COURSES AT OTHER UH CAMPUSES - DIFFERENT SUBJECT CODE AND/OR NUMBER (IF APPLICABLE) ⓘ

Leeward CC

QM107C - Quantitative Methods in Automotive Technology

Hawai'i CC

QM120T - Quantitative Methods for Transportation Technology

Honolulu CC

MATH150 - Technical College Mathematics

Admin Panel 1

(ADMIN USE) FIVE-YEAR REVIEW CYCLES

2020/21

P.3) Dependencies Impact (I/R)

(DIVISION CHAIR/ADMIN REVIEW) IMPACT OF DEPENDENCIES ⓘ

Impacted

Course credits increased or decreased

Course is being inactivated

Course is being retired

Course is being split into two separate courses (may also include alpha/number change)

P.3.A) PROPOSER ACKNOWLEDGEMENT (REQUIRED)

I understand that my CO proposal will be withheld until affected division(s) take appropriate action, if required, for all courses and programs listed as a dependency

Course Dependencies

LIST OF DEPENDENCIES

There are no dependencies

C) Articulation

C.1) ARTICULATION STATUS

Not appropriate for articulation (justification provided below)

C.1.A) ARTICULATION STATUS JUSTIFICATION

The courses for the other Community Colleges are designed for a specific trade/occupation or the courses do not have the CSLO's that are required for our Trades Students.

1) General Information

1.1) SUBJECT CODE ⓘ

QM

1.2) NUMBER ⓘ

108

DIVISION

Trade Technology

1.3) PREVIOUS SUBJECT CODE AND NUMBER (IF APPLICABLE)

1.3a) DETAILS

Previous Subject Code and Number Details

1.4) TITLE

Quantitative Methods for the Trades

1.5) BANNER TITLE

Quant Method in the Trades

1.6) DESCRIPTION

This course covers the quantitative methods, reasoning, and applications necessary to perform tasks and solve problems encountered by Trades students. Topics include computational operations; geometry and measurements; ratio, proportion, and percent; probability and statistics; and trigonometry.

1.7) COMMENTS FOR CATALOG (IF APPLICABLE)

This course is for students currently enrolled in a Trades Technology program.

1.8) CROSS-LISTED COURSE FOR COURSE EQUIVALENCE (IF APPLICABLE) ⓘ**1.9) MAXIMUM ENROLLMENT**

15

1.10) CREDIT OPTION

3

1.11) CONTACT HOURS**Semester Type**

Standard Semester (15 weeks)

Activity Type	Hours/Week	Credit Ratio	Contact Hours	Credits
Lecture (1 credit per 1 contact hour)	3	1:1	45	3
Lab (1 credit per 3 contact hours)		1:3	0	0
Lecture/Lab (1 credit per 2 contact hours)		1:2	0	0
	3		45	3

(DIVISION CHAIR/VCAA USE) SCHEDULE TYPE

LEC = Lecture (basis of 15)

INITIAL WORKLOAD (TO THOUSANDTHS PLACE) (Read Only)

ⓘ

3

1.12) REPEATABILITY - FOR GRADE REPLACEMENT

Repeatable once (2 attempts / Banner limit = 1)

1.13) REPEATABILITY - FOR ADDITIONAL CREDIT

No

1.14) GRADING OPTIONS ⓘ

Standard letter grade (A-F)

(ADMIN USE) GENERAL INFORMATION NOTES

2) Requisite Information

2.1) PREREQUISITES (IF APPLICABLE) ⓘ

2.2) APPROVAL OF INSTRUCTOR IS REQUIRED TO ENROLL IN THIS COURSE

No (instructor approval is OPTIONAL; requisite and repeat rules apply)

2.3) COREQUISITES (IF APPLICABLE)

None

2.4) RECOMMENDED PREPARATORY COURSE REQUISITES (IF APPLICABLE)

2.5) RECOMMENDED PREPARATORY SKILLS/KNOWLEDGE (IF APPLICABLE)

CATALOG REQUISITES (Read Only)

CURRENT:

None.

(ADMIN USE) REQUISITE INFORMATION NOTES

Admin Panel 2

(ADMIN USE) CATALOG REQUISITE

CURRENT:

None.

3) Learning Outcomes

3.1) STUDENT LEARNING OUTCOMES ⓘ

Calculate and interpret ratios and percentages.

Methods of Assessment

Performance/Exhibit

Linked Program Outcome

Carpentry Technology (Approved 2/6/2013) 5/6: Communicate successfully orally and in writing using computer technology.
(Carpentry Technology)

Linked Institution Outcomes

Symbolic Reasoning: Use appropriate mathematical and logical concepts and methods to understand, analyze, and explain issues.

Calculate probabilities, and statistics that arise in Trades Technology.

Methods of Assessment

Performance/Exhibit

Linked Program Outcome

Carpentry Technology (Approved 2/6/2013) 5/6: Communicate successfully orally and in writing using computer technology. (Carpentry Technology)

Linked Institution Outcomes

Symbolic Reasoning: Use appropriate mathematical and logical concepts and methods to understand, analyze, and explain issues.

Apply trigonometric ratios to solve right triangle problems.

Methods of Assessment

Practical Project or Examination

Linked Program Outcome

Carpentry Technology (Approved 2/6/2013) 5/6: Communicate successfully orally and in writing using computer technology. (Carpentry Technology)

Linked Institution Outcomes

Symbolic Reasoning: Use appropriate mathematical and logical concepts and methods to understand, analyze, and explain issues.

Solve problems using quantitative calculations applied in trades technology.

Methods of Assessment

Performance/Exhibit

Linked Program Outcome

Carpentry Technology (Approved 2/6/2013) 5/6: Communicate successfully orally and in writing using computer technology. (Carpentry Technology)

Linked Institution Outcomes

Symbolic Reasoning: Use appropriate mathematical and logical concepts and methods to understand, analyze, and explain issues.

4) Weekly Content

4.1) WEEKLY CONTENT

Week 1 - Whole Numbers

Week 2 - Fractions

Week 3 - Decimal Numbers

Week 4 - Ratio, Proportion, and Percentages

Week 5 - Measurement and the Metric System

Week 6 - Review, Exam

Week 7 - Pre-Algebra

Week 8 - Basic Algebra

Week 9 - Practical Plane Geometry

Week 10 - Solid Figures / Shape

Week 11 - Applications, Review, Exam

Week 12 - Triangle Trigonometry

Week 13 - Intermediate Algebra

Week 14 - Statistics

Week 15 - Finalize Projects and Presentations

Attachments (Optional)

Status

Status

Active

Start Term

Fall 2021

End Term

No Date Chosen

Banner Data Elements

(DIVISION CHAIR/VCAA USE) SCHEDULE TYPE

LEC = Lecture (basis of 15)

INITIAL WORKLOAD (TO THOUSANDTHS PLACE)

3

SMAAREA (CONCURRENT ENROLLMENT CHECK BOX)

Rule

Course

Date

THIS COURSE IS MENTIONED IN GEN ED/SKILLS CORE OPTIONS LIST

No Rules