Please read the attached curriculum proposal. Then make your preliminary recommendation. If you have reservations or are against the proposal, please add your comments for the committee to discuss. After discussion, we will vote on the recommendations to forward to the Committee on Programs and Curricula (CPC).

**PRELIMINARY (non-binding) RECOMMENDATION**

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<td>Course Alpha &amp; No.:</td>
<td>Math 115</td>
<td>Proposer:</td>
<td>S. Foster</td>
<td>Effective Term:</td>
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**PROPOSAL SUMMARY (Include reasons for modifying course.):**

Due to the changes with developmental math courses and the separation of STEM and Non-STEM & Technical pathways there are a few Math courses that require changes to prerequisites. Math 75 will be the primary prerequisite for Math 100, 111, 115, and 150.

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**SIGNATURES**

Proposal: Sterling Foster 10-21-15

Initiator / Date

Division Chair / Date

Program Dean / Date

Approval:

Division Curriculum Committee Chair / Date

Committee on Programs & Curricula Chair / Date

Vice Chancellor of Academic Affairs / Date

Chancellor / Date
### CURRICULUM ACTION PROPOSAL

**Modify a Course Short Form – Requirements Only:**
Prerequisite, Prerequisite or Co-requisite, Co-requisite, Recommended Prep, Special Approval, Major Restriction Only

**INSTRUCTIONS:** Complete all applicable fields. Continue overflow text under “Additional information”. Attach copies of all Catalog pages that are affected with changes marked.

<table>
<thead>
<tr>
<th>Course Alpha &amp; No.:</th>
<th>Math 115</th>
<th>Effective Term:</th>
<th>Fall 2016</th>
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<tbody>
<tr>
<td>Course Title:</td>
<td>Introduction to Statistics and Probability</td>
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<tr>
<td>Prerequisite: * &quot;C&quot; or higher in Math 25 OR Placement in Math 115</td>
<td>Prerequisite: &quot;C&quot; or higher in Math 25 OR &quot;C&quot; or higher in Math 25 OR Placement in Math 115</td>
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<td>(&quot; State minimum Grade if not a &quot;D&quot;)</td>
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<td>Prerequisite or Co-requisite:</td>
<td>Prerequisite or Co-requisite:</td>
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<td>Co-requisite:</td>
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<td>Recommended Prep: Math prerequisites should be completed within the last two (2) years.</td>
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<td>Major Restriction:</td>
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**IMPACT**

- **YES □ NO** Are any PROGRAMS impacted by this proposal? (i.e. Program Credits, Courses, Prerequisites, Requirements, Electives, etc.)
  If "Yes" attach Program Modification Form(s) and briefly explain below.

- **YES □ NO** Are any COURSES impacted by this proposal? (i.e. Course Prerequisites, Co-requisites, Recommended Prep, Cross-Listed, etc.)
  If "Yes" attach Course Modification Form(s) and briefly explain below.

- **YES □ NO** Were the affected Programs/Departments consulted and notified of the proposed changes?

Describe impact on Programs and/or Courses. (Attach appropriate Program Modification and Course Modification Forms)
There will be a reduction in Math 25 courses offered, due to the creation of the optional Math 75 prerequisite.

**Additional Information:**
Catalog 2015-2016 page 228 and flowchart page 227

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Rev. Sept 2012
continue to attend MATH 9 and show progress towards the completion of MATH 9 in order to receive credit for MATH 8. Students may receive credit twice for a maximum of 10 credits. Graded on a CR/N basis. (8 hrs lect./lab. per week)

MATH 9 FUNDAMENTALS OF MATHEMATICS (5)
[FORMERLY MATH 98M]
The purpose of this course is to prepare students with the necessary foundation in mathematical skills to enter Career Technical and Liberal Arts programs. It also provides the students who are already in these programs an opportunity to strengthen their backgrounds. Graded on a CR/N basis. (8 hrs lect./lab. per week)

MATH 24 ELEMENTARY ALGEBRA I (3)
Prerequisite: MATH 9, OR "C" or higher in MATH 50/53, OR Placement in MATH 24
MATH 24 represents the first course in a two-course sequence covering elementary algebra topics. Topics include operations with real numbers, linear equations and inequalities, graphing, linear systems, and applications. (3 hrs. lect. per week)

MATH 25 ELEMENTARY ALGEBRA II (3)
Prerequisite: "C" or higher in MATH 24 OR Placement in MATH 25
MATH 25 represents the second course in a two-course sequence covering elementary algebra topics. Topics include properties of exponents, operations on polynomials, factoring, rational expressions and equations, roots and radicals, quadratic equations, and applications. (3 hrs. lect. per week)

MATH 37 MYQUANTWAY I (4)
Prerequisite: Placement in MATH 24
Academic Advisor approval required.
This is the first course in a two semester sequence. MyQuantway provides an alternate and accelerated pathway that will motivate and engage students with an innovative quantitative reasoning focus in which students use mathematics and numerical reasoning to make sense of the world around them. In this non-STEM (science, technology, engineering, mathematics) pathway, students who place into elementary algebra will go through a college-level quantitative reasoning course in one year. (5 hrs. lect. per week)

MATH 50 TECHNICAL MATHEMATICS I (3)
Prerequisite: MATH 9, OR Placement in MATH 50
Basic algebra and basic geometry as applied to shop problems. Intended for students interested in Vocational-Technical programs. (3 hrs. lect. per week)

MATH 53 TECHNICAL OCCUPATIONAL MATHEMATICS (4)
Prerequisite: MATH 9, OR Placement in MATH 50
Basic algebra, geometry, and trigonometry as applied to shop problems. Intended for students in Technical-Occupational programs. May be taken on a CR/N basis. (4 hrs. lect. per week)

MATH 55 TECHNICAL MATHEMATICS II (3)
Prerequisite: "C" or higher in MATH 50 or in 53 OR Placement in MATH 55
Basic numerical trigonometry and further applications of algebra and geometry to shop problems. Intended for students interested in Vocational-Technical programs. (3 hrs. lect. per week)

MATH 100 SURVEY OF MATHEMATICS (3) FS
Prerequisite: "C" or higher in MATH 25 OR Placement in MATH 100
Recommended Prep: Placement in ENG 22/60 or ESL 23
A general survey of mathematics, with emphasis on its historical development and the role it plays in modern society. (3 hrs. lect. per week)

MATH 100Q MYQUANTWAY II (4)
Prerequisite: "C" or higher in MATH 37
Academic Advisor approval required.
This is the second course in a two semester sequence. Math 100Q provides an alternate and accelerated pathway that will motivate and engage students with an innovative quantitative reasoning focus in which students use mathematics and numerical reasoning to make sense of the world around them. In this non-STEM (science, technology, engineering, mathematics) pathway, students who place into elementary algebra will go through a college-level quantitative reasoning course in one year. (5 hrs. lect. per week)

MATH 103 COLLEGE ALGEBRA (3)
Prerequisite: "C" or higher in MATH 25 OR Placement in MATH 103
An extension of the elementary algebra sequence designed to prepare students for precalculus. Topics include simplification of algebraic and radical expressions, factoring, solution of linear, quadratic, absolute value and literal equations and inequalities, complex numbers, solution of linear and quadratic systems, logarithms and an introduction to functions and their graphs. (3 hrs. lect. per week)

MATH 111 MATH FOR ELEMENTARY TEACHERS I (3)
Prerequisite: "C" or higher in MATH 25 OR Placement in MATH 100 or higher
Recommended Prep: Placement in ENG 100 or higher
Comment: Recommended for prospective elementary education majors.
Elementary Education majors only. MATH 111 is the first of a two-course sequence designed to give prospective elementary education majors the depth of understanding necessary to teach mathematics in the elementary classroom. Topics include numbers (natural, rational and real) and operations, sets, patterns, functions and algebra. The emphasis is on communication, connections to other parts of mathematics, problem solving, representations, reasoning and proof. (3 hrs. lect. per week)

MATH 115 INTRODUCTION TO STATISTICS AND PROBABILITY (3)
Prerequisite: "C" or higher in MATH 25 OR Placement in MATH 115
Recommended Prep: Placement in ENG 22/60 or ESL 23
Math Sequence Chart

This chart illustrates the sequence of Math courses offered at Honolulu CC. Enter Math at the level determined by Placement Test, courses taken at Honolulu CC, or courses transferred.

**HONOLULU CC PLACEMENT POLICY:** Students who place below MATH 24 based on ACT Compass placement test scores, are required to enroll in the MATH Essentials class in their first semester at Honolulu CC.

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**MATH ESSENTIALS**

- MATH 9
  - formerly MATH 103 (C.O. or MATH 951)

- MATH 24
  - Elemen Algebra II

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**MATH 197**
- Technical Math II

**MATH 25**
- Elemen Algebra II

---

**TRANSFER**

- MATH 115
  - Statistics

- MATH 103
  - College Algebra

- MATH 110
  - Survey of Math

- MATH 111
  - Math for Elementary Teacher

- MATH 100Q
  - Math for Quantitative Reasoning II

---

**TRACK**

- MATH 135
  - Pre-Calculus: Elem. Functions

- MATH 140
  - Pre-Calculus: Trig & Analytic Geometry

- MATH 205
  - Calculus I

- MATH 206
  - Calculus II

- MATH 206L
  - Calculus Computer Lab

- MATH 231
  - Calculus III

- MATH 232
  - Calculus IV

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**Notes on Courses:**

- "CR" grade is required in MATH 9 to progress.
- "C" grade or higher is required in other MATH to progress.

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Revised 3/12/14