University of Hawai‘i at Mānoa
Colleges of Arts \& Sciences Program Sheet 2014-2015

## Bachelor of Science (BS) in Mathematics

## Admissions: Open Process: Declaration

Min. Total Credits: 120 ( 96 in core $\&$ major +24 in electives)


| Degree Requirements |
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| Bachelor of Science Requirements |
| a Calculus I |
| a Calculus II |
| Chemistry I with lab |
| Q Chemistry II with lab |
| Physics I with lab |
| P Physics II with lab |
| Refer to major requirements for the specific courses that <br> satisfy these requirements. |
| College Requirements |
| Credit Maximums |
| - 8 KRS activity |
| - 9 Directed Reading / Research |
| - 12 Practicum / Internship |
|  | can also fulfill these.

This program sheet was prepared to provide information and does not constitute a contract. See back for major requirements. Meet regularly with your major advisor.

Admission: Open
Application: NA
Min. major credits: $\mathrm{BS}=39$ ( 50 with related requirements)
Min. exit GPA: 2.0 GPA in the major
Min. C grade (not C-) in courses

## Requirements

Related Requirements ( $\mathbf{2 7 - 2 9}$ credits)
$\square$ MATH $241^{* \mathrm{FS}}$ or $251 \mathrm{~A}^{* \mathrm{FS}}$
$\square$ MATH 242 or 252A

- MATH 243 or 253A
- CHEM 161*DP / 161L*DY

C CHEM $162 *{ }^{\mathrm{DP}} / \mathrm{D}_{162 \mathrm{~L}^{\mathrm{DY}}}$
$\square$ PHYS $151^{* D P}$ or $170^{* D P} / \square 151 L^{* D Y}$ or $170 L^{* D Y}$
$\square$ PHYS $152 *{ }^{\mathrm{DP}}$ or $272 *{ }^{\mathrm{DP}} / \square 152 \mathrm{~L}^{\mathrm{DY}}$ or 272L**
Mathematics Courses (39 credits; see department for approved courses; see catalog for prerequisites)
MATH 190 or 407; or EE 160; or ICS 111 or 211
$\mathbf{2 4}$ credits in MATH 300+ courses:


15 credits of additional MATH $300+$ or approved non-introductory courses in natural or information sciences:


ICS 211 or MATH 407 may be included among the 15 additional credit hours.
The following requirements must be fulfilled in regards to the $\mathbf{3 9}$ above credits (check completed): - 6 credit hours in writing-intensive mathematics courses - 6 credit hours in a sustained two-course sequence (see department for approved sequences)

## Additional Mathematics Restrictions

Only two of MATH 301, 371, and 373 may be counted toward major requirements.
Only one of MATH 307 and 311 may be counted toward major requirements.
Mandatory advising each spring semester prior to fall registration. Advising every semester is recommended.

## Notes

Colleges of Arts and Sciences Student Academic Services: QLCSS 113; (808) 956-8755
Mathematics Department: Keller 401-A; (808) 956-4680; office@ math.hawaii.edu; www.math.hawaii.edu
Mathematics Undergraduate Advisor: Keller 419 (808) 956-4679
There are some exceptions to the rules listed above. Detailed information is available in the department office and on the department

