**Bachelor of Arts/Science (BA/BS) in Mathematics**

**Admissions:** Open  
**Process:** Declaration

Min. Total Credits: 124 (BA = 81 in core & major + 43 in electives; BS = 102 in core & major + 22 in electives)

### UHM General Education Core Requirements

<table>
<thead>
<tr>
<th>Foundations</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FW</td>
<td>FS</td>
</tr>
<tr>
<td></td>
<td>FG (A / B / C)</td>
<td>FG (A / B / C)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Diversification</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DA / DH / DL</td>
<td>DB</td>
</tr>
<tr>
<td></td>
<td>DB</td>
<td>DP</td>
</tr>
<tr>
<td></td>
<td>DS</td>
<td>DS</td>
</tr>
</tbody>
</table>

* See degree, college and major requirements for courses that can also fulfill these.

### Focus

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H</td>
</tr>
<tr>
<td></td>
<td>E (300+)</td>
</tr>
<tr>
<td></td>
<td>O (300+)</td>
</tr>
</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>W</td>
</tr>
<tr>
<td></td>
<td>W</td>
</tr>
<tr>
<td></td>
<td>W (300+)</td>
</tr>
<tr>
<td></td>
<td>W (300+)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hawaiian/Second Language</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>101</td>
<td>102</td>
</tr>
<tr>
<td></td>
<td>201</td>
<td>202</td>
</tr>
</tbody>
</table>

### Credit Minimums

- 124 total applicable
- 30 in residence at UHM

### Grade Point Average

- 2.0 cumulative or higher
- Good academic standing

### Degree Requirements

#### Bachelor of Arts Requirement (Can also fulfill FS)

- MATH 100, 100A, 112, 140, 203, 215, 241, 251A; PHIL 110, 110A, 111; BUS 250; ICS 141; or NREM 203

#### Bachelor of Science Requirements

- MATH 215*FS or 241*FS
- MATH 216 or 242
- DB course
- CHEM 161*DP / CHEM 161*DY
- CHEM 162*DP / CHEM 162*DY
- PHYS 151*DP or 170*DP / PHYS 151*DP or 170*DP
- PHYS 152*DP or 272*DP / PHYS 152*DP or 272*DP

### College Requirements

#### A & S Options – Complete at least one option

(BA Courses cannot double count with Gen. Ed. Core)

- Bachelor of Arts Breadth (3 credit each)
  - AH
  - LLL
  - NS
  - SS

- Bachelor of Arts Depth – see list of A & S depts.
  - Minor
  - Certificate
  - 2nd A & S Major

- Bachelor of Science
  - See degree requirements above.

### Credit Minimums

- 104 from A & S disciplines – see list
- 60 non-introductory

### Credit Maximums

- 8 KRS activity
- 9 Directed Reading / Research
- 12 Practicum / Internship

### A & S Major Requirements

See back for major requirements. Meet regularly with your major advisor.
Major Requirements for BA or BS in Mathematics

Admission: Open
Application: NA
Min. major credits: BA = 21 (32 with related requirements); BS = 39 (50 with related requirements)
Min. exit GPA: 2.0 GPA in the major
Min. C grade (not C-) in courses

Requirements

Mathematics Related Requirements (11-12 credits)
- MATH 241*FS or 251A*FS
- MATH 242 or 252A
- MATH 243 or 253A

Mathematics Core Courses (see catalog for prerequisites)

- BA only (21 credits)

  21 credits in MATH 300+ courses:
  - MATH 321
  - MATH 480 (CR/NC only; variable credits)

  BA Requirements Continued
  The following requirements must be fulfilled in regards to the 21 credits (check completed):
  - 3 credit hours in a writing-intensive mathematics course
  - 6 credit hours in a sustained two-course sequence (see department for approved sequences)
  - 6 credit hours in courses numbered above 400

- BS only (39 credits; see department for approved courses; see catalog for prerequisites)

  24 credits in MATH 300+ courses:
  - MATH 321
  - MATH 480 (CR/NC only; variable credits)

  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.

BS Requirements Continued
The following requirements must be fulfilled in regards to the 39 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 for BA and BS Students

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; patg@math.hawaii.edu; www.math.hawaii.edu
Mathematics Undergraduate Advisor: Karl Heiner Dovermann, PhD; (808) 956-7811; Keller 419A; dover@hawaii.edu