| MATHEMATICS - Applied Option |  |  | BS (122 hours) | Effective 2017-2021 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| NAME |  | PID |  | Optional $2^{\text {nd }}$ Major or Minor |  |  |
| FOUNDATIONS MATH PL |  |  |  |  |  |  |
| English Comp. and Rhetoric | Foreign Language* |  |  |  | Quant. Reas. (QR) | Lifetime Fitness (LFIT) |
| ENGL 105 | 1. |  | 3. |  | MATH 231 |  |
|  | 2. |  | 4. |  |  | (1 hr.) |

## APPROACHES

| Phys. and Life Sciences (PX/PL) | Social and Behavioral Sciences** | Humanities/Fine Arts |
| :--- | :--- | :--- |
|  | Hist. Analysis (HS): | Vis. \& Perf. Arts (VP): |
|  | Soc.Sci../Hist. Analysis (SS/HS): | Literary Arts (LA): |
| PHYS 104 or 114 <br> or 116 or 118 | Soc.Sci../Hist. Analysis (SS/HS): | Phil. Reasoning (PH): |

**From at least two different departments

## CONNECTIONS

| Communication Int. (CI) | Quant. Int. (QI) or_2nd Quant. Reas. (QR) | Experiential Ed. (EE) | Global Issues (GL) |
| :---: | :---: | :---: | :---: |
|  | MATH 232 |  |  |
| US Diversity (US) | North Atlantic World (NA) | World before 1750 (WB) | Beyond the NA (BN) |
|  |  |  |  |

MAJOR/MINOR/ELECTIVES


Remaining courses after this term:


Foundations
Approaches
___ Connections
Supplemental
First Major
Major/Minor
Minor
Requirements subtotal Electives/Other Total

Hours to be deducted:
Repeated courses
HSFL
Online courses > 24
Other
Professional School > 30 Hours in subject $(\mathrm{BA})>45$ Total

| Optional Minor | Electives/Minor | Electives |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

- 2.0 OR HIGHER GPA REQUIRED IN MAJOR AND MINOR CORE COURSES
$\ddagger$ If taking PHYS 104, must also take PHYS 105; if taking PHYS 116, must also take PHYS117. PHYS 114 and 118 do not require an additional PHYS course. PHYS 118 highly recommended.
(\#) Four or more courses in the Division of Natural Sciences and Mathematics, (beyond the General Education requirements) but not taken in the Mathematics department. STOR 555 can be counted here. MATH 535/STOR 435 and STOR 555 are strongly recommended.
**A current/former major in statistics and analytics (mathematical decision sciences) may substitute STOR 215 for MATH 381.
his tally assumes successful completion of presently enrolled courses (not AB or IN), and it does not account for all possible overlaps


## Graduate and Career Opportunities

B.A. or B.S. degree with a major in mathematics, suggestions for pure mathematics:

These courses provide a solid theoretical understanding of central mathematics and excellent preparation for graduate study in mathematics or the mathematical sciences.

- MATH 521
- MATH 522
- MATH 577
- MATH 578
- Enough upper-level mathematics courses to satisfy the degree requirements

Those planning graduate study in mathematics or the mathematical sciences may consider taking some of MATH 653, 676,680 , or subsequent courses.

## B.S. degree with a major in mathematics, suggestions for mathematical biology:

For students interested in careers or further study in mathematical life sciences.

- BIOL 101 and CHEM 101 or CHEM 102
- At least one of BIOL 201, 202, 205
- At least two of BIOL 454, 526, 551, 553
- MATH 521
- One of MATH 522, 523, 528, 566
- One of MATH 534, 548, 578
- MATH 347/547* or 577
- Three or more mathematics courses numbered above 500 . Consider especially MATH 524, 529, 535, and 564

