## MATHEMATICS A.B. (Plan 1 - General)

SAMPLE SCHEDULE

| YEAR 1 | YEAR 2 |
| :---: | :---: |
| FALL QUARTER: MAT 21A, 1 natural science course | FALL QUARTER: MAT 21D, MAT 22A, MAT 22AL |
| WINTER QUARTER: MAT 21B, 1 natural science course | WINTER QUARTER: MAT 22B, 1 natural science course |
| SPRING QUARTER: MAT 21C, ECS 32A | SPRING QUARTER: MAT 108, MAT 115A |
| YEAR 3 | YEAR 4 |
| FALL QUARTER: MAT 127A, MAT 1XX | FALL QUARTER: MAT 150A, MAT 1XX |
| WINTER QUARTER: MAT 127B, MAT 135A | WINTER QUARTER: MAT 1XX |
| SPRING QUARTER: MAT 127C | SPRING QUARTER: Capstone |

Requirements


## NOTES

** MAT 67 is a more abstract, rigorous version of 22A and 108. Recommended if you earn all A's in MAT 21ABC and like theory.
*** ECS 32A can be replaced by ECS 10, 30, 40, 32B, 34, 36A, 36B, or 36C.

DEPTH COURSEWORK (39 units): Plan to complete these during your junior and senior years.

|  | Course | Units | Qtr(s) Offered | Year | Prerequisites \& Enrollment Restrictions |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | MAT 127A (Real Analysis) | 4 | F W S SSI |  | 21 C or 21 CH ; and (22/27A and 108) or 67 |
|  | MAT 127B (Real Analysis) | 4 | F W S SSII |  | 127A |
|  | MAT 127C (Real Analysis) | 4 | F W S SSI |  | 127B |
| $\square$ | MAT 135A (Probability) | 4 | F W S SSI |  | MAT 021C; and (MAT 108 or MAT 127A) |
| $\square$ | MAT 150A (Modern Algebra) | 4 | F W SSI |  | (22/27A and 108) or 67 |
| $\square$ | Enrichment Class (MAT 111-185B, excluding 180) | 4 | See below for more information about Enrichment options. |  |  |
| $\square$ | Enrichment Class (MAT 111-185B, excluding 180) | 4 |  |  |  |
|  | Enrichment Class (MAT 111-185B, excluding 180) | 4 |  |  |  |
| $\square$ | Enrichment Class (MAT 111-185B, excluding 180) | 4 |  |  |  |
| $\square$ | Capstone | 3 | See info below | w for | more information about Capstone options. |

Information above is subject to change, based on changes to course offerings, prerequisites, etc.

## ENRICHMENT CLASSES

## You are required to take 4 Enrichment Classes.

- 3-4 of your Enrichment classes must be from the Math Department. Any class from MAT 111 through MAT 185B will count, excluding MAT 180 and any core classes (e.g. MAT 127ABC, 135A).
How do I pick my Math Enrichment classes?
- See catalog.ucdavis.edu/programs/MAT/MATcourses.html for a list of all possible Math Enrichment classes \& their prereqs. Pick ones that look interesting!

Note: your faculty advisor can also help with this. Find their contact info here: https://www.math.ucdavis.edu/undergrad/advising/advisers/

- Find out when the classes you're interested in are offered:
- Academic Year: https://www.math.ucdavis.edu/courses/academic-schedule
- Summer: https://www.math.ucdavis.edu/courses/summer
- Up to 1 Enrichment class may be outside the Math Department, as long as it uses math extensively and has been approved by a faculty adviser. These classes often have additional prerequisites, so plan accordingly.
Pre-approved non-math enrichment classes are: ATM 120, 121A, 121B; CHE 110A, 110B, 110C; EEC 130A, 130B; ECI 114, 153; ECN 122, 140; ECS 120, 122A, 127; EME 115; ESP 150A; GEL 150A; LIN 177; PHY 104A, 104B, 104C, 105A, 105B, 108, 110A, 110B, 110C, 112, 115A, 115B, 116A, 116B, 145; STA 131B, 131C, 141ABC


## CAPSTONE

You are required to complete 1 of the following options before graduation (typically in your last year).

- One of the in-depth math courses: MAT 115B, 118B, 119B, 135B, 146, 150B, 150C, or 185B.
- MAT 180 (Special Topics class). Offered F, W, S. Topic changes every quarter: https://www.math.ucdavis.edu/courses/syllabi/special-
topics/
- MAT 189 (Advanced Problem Solving). Offered irregularly (usually spring). Project-based class with written and verbal presentations.
- MAT 194 (Undergrad Thesis). Requires that you find a faculty member who will work with you. 2 quarter commitment minimum.
https://www.math.ucdavis.edu/undergrad/research/thesis/

