

**Coastal Marine Resource Management (CMRM)
 Sample Program of Study (POS) Form**

*****First year MESM students use the POS Form to plan a program of study at Bren. Second year MESM students will revise the POS Form AND complete a GRAD CHECK FORM prior to meeting with your specialization advisor.*****

NAME: _____ **PERM # (required) :** _____

SPECIALIZATION(S): _____

- A **MINIMUM of 80 units** of completed (approved) coursework is required.
- Students may count a **MAXIMUM of 4 units** of ESM 596 towards their POS unit count.
- Students may count a **MAXIMUM of 8 units** of UPPER DIVISION undergraduate coursework as approved their advisor(s) towards their POS unit count. Note: LOWER DIVISION coursework can never be counted.
- Students may count a **MAXIMUM of 4 units** of 400-level coursework (in addition to 401ABC) towards their POS unit count.
- If a CORE course is waived, the units need to be made up elsewhere (i.e., an additional elective course).

CORE REQUIREMENTS:

| CORE COURSES | QTR/YR COMPLETED <small>Write waived if waiver approved and don't count the units</small> | UNITS | GRADE |
|---|---|--------------|--------------|
| ESM 201 Ecol. of Managed Ecosystems | | 4 | |
| ESM 202 Environmental Biogeochemistry | | 4 | |
| ESM 203 Earth Systems Science | | 4 | |
| ESM 204 Econ. Environmental Management | | 4 | |
| ESM 206AB Stats & Data Analysis | | 4 | |
| ESM 207 Environmental Law & Policy | | 4 | |
| ESM 210 Business & the Environment | | 4 | |
| ESM 241 Environmental Politics & Policy | | 2 | |
| ESM 251 Intro to Env. Policy Analysis | | 2 | |

GROUP PROJECT OR ECO-ENTREPRENEURSHIP PROJECT (CORE REQUIREMENT)

| GROUP PROJECT (CORE REQUIREMENT) | UNITS | GRADE |
|---|--------------|--------------|
| ESM 401A (Spring of 1 st year) | 4 | |
| ESM 401B (Fall of 2 nd year) | 4 | |
| ESM 401C (Winter of 2 nd year) | 4 | |

OR

| ECO-ENTREPRENEURSHIP PROJECT | UNITS | GRADE |
|---|--------------|--------------|
| ESM 402A (Spring of 1 st year) | 4 | |
| ESM 402B (Fall of 2 nd year) | 4 | |
| ESM 402C (Winter of 2 nd year) | 4 | |

| | | |
|-------------------------|--------------------|--|
| Total CORE Units | 44 - waived units= | |
|-------------------------|--------------------|--|

POS ELECTIVE UNITS:

- Minimum POS elective units = 80 Units - # CORE Units.
- Unless you have waived a course this will be 80 - 44 = 36 minimum POS elective units.
- POS elective units consist of coursework that builds depth in the student’s specified area of specialization.
- Students may take *up to 8 units* of POS elective coursework as P/NP (undergraduate course numbers 100-199) or S/U (grad course numbers 200 and above)
- Students may wish to take additional elective units that are not included in the POS. All of these units may be taken S/U or P/NP.

The POS is designed specifically for the chosen specialization **and** the student’s particular background and goals. An acceptable POS includes courses that build depth in a particular area of specialization and also develop technical skills. MESM students are encouraged to identify different areas they wish to gain more knowledge and skill.

POS Elective COURSES: Please list all courses you are considering taking.

Please visit <http://bren.ucsb.edu/academics/MESM.html#specializations> and click on the accompanying link to view course work recommended for your specialization.
Please visit <http://bren.ucsb.edu/services/student/index.html> to see sample POS Forms for each specialization.

ESSENTIAL COURSES: RECOMMENDED TO TAKE THIS COURSE

| COURSE # | COURSE TITLE | QTR/YR COMPLETED | UNITS | GRADE |
|----------|------------------------|------------------|-------|-------|
| ESM 260 | Applied Marine Ecology | | 4 | |

Add rows as needed

| | |
|---------------------------------------|---|
| Total Section 1 ELECTIVE Units | 4 |
|---------------------------------------|---|

ESSENTIAL COURSES: RECOMMENDED TO TAKE AT LEAST ONE OF THESE COURSES

| COURSE # | COURSE TITLE | QTR/YR COMPLETED | UNITS | GRADE |
|----------|--|------------------|-------|-------|
| ESM 242 | Natural Resources Economics and Policy | | 4 | |
| ESM 257 | Coastal Marine Policy and Management | | 4 | |

Add rows as needed

| | |
|---------------------------------------|---|
| Total Section 2 ELECTIVE Units | 4 |
|---------------------------------------|---|

OCEANOGRAPHY: RECOMMENDED TO TAKE AT LEAST ONE COURSE IN THIS AREA

| COURSE # | COURSE TITLE | QTR/YR COMPLETED | UNITS | GRADE |
|-----------|------------------------------------|------------------|-------|-------|
| ESM 254 | Coastal Marine Ecosystem Processes | | 4 | |
| EEMB 142A | Aquatic Communities | | 4 | |

Add rows as needed

| | |
|---------------------------------------|---|
| Total Section 3 ELECTIVE Units | 4 |
|---------------------------------------|---|

TECHNICAL COURSES: RECOMMENDED TO TAKE AT LEAST ONE OF THESE COURSES

| COURSE # | COURSE TITLE | QTR/YR COMPLETED | UNITS | GRADE |
|----------|--|------------------|-------|-------|
| ESM 232 | Environmental Modeling | | 4 | |
| ESM 263 | GIS | | 4 | |
| EESM 279 | Modeling Ecological and Environmental Change | | 4 | |

Add rows as needed

| | |
|---------------------------------------|---|
| Total Section 4 ELECTIVE Units | 8 |
|---------------------------------------|---|

ECON, LAW, POLICY: RECOMMENDED TO TAKE AT LEAST ONE MORE COURSE IN THIS AREA

| COURSE # | COURSE TITLE | QTR/YR COMPLETED | UNITS | GRADE |
|-----------------|---|-------------------------|--------------|--------------|
| ESM 243 | Environmental Policy Analysis | | 4 | |
| ESM 245 | Cost Benefit Analysis | | 4 | |
| ESM 294 | Advanced Topics: Law of Coastal Zone Mgmt | | 2 | |

Add rows as needed

| | |
|---------------------------------------|-----|
| Total Section 5 ELECTIVE Units | 6-8 |
|---------------------------------------|-----|

ADDITIONAL SCIENTIFIC DEPTH:

| COURSE # | COURSE TITLE | QTR/YR COMPLETED | UNITS | GRADE |
|-----------------|---------------------------------|-------------------------|--------------|--------------|
| ESM 211 | Applied Population Ecology | | 4 | |
| ESM 222 | Fate and Transport of Pollutant | | 4 | |
| ESM 235 | Watershed Analysis | | 4 | |

Add rows as needed

| | |
|---------------------------------------|---|
| Total Section 6 ELECTIVE Units | 8 |
|---------------------------------------|---|

ADDITIONAL SUPPORTING ELECTIVES:

| COURSE # | COURSE TITLE | QTR/YR COMPLETED | UNITS | GRADE |
|-----------------|---|-------------------------|--------------|--------------|
| ESM 269 | Survey Design and Public Opinion | | 2 | |
| ESM 276 | Ethical Decision-Making for the Environment | | 2 | |
| ESM 280 | Organizations and Environmental Leadership | | 4 | |
| ESM 283 | Environmental Negotiation | | 4 | |

Add rows as needed

| | |
|---------------------------------------|-----|
| Total Section 7 ELECTIVE Units | 6-8 |
|---------------------------------------|-----|

400-LEVEL ELECTIVES: A MAXIMUM OF 4-UNITS MAY COUNT TOWARDS 80 UNIT MINIMUM

| COURSE # | COURSE TITLE | QTR/YR COMPLETED | UNITS | GRADE |
|-----------------|---------------------------|-------------------------|--------------|--------------|
| ESM 430 | Proposal Writing Workshop | | 0.5 | |
| ESM 430 | Law Workshop | | 0.5 | |

Add rows as needed

| | |
|---------------------------------------|---|
| Total Section 8 ELECTIVE Units | 2 |
|---------------------------------------|---|

ADD ADDITIONAL SECTIONS ABOVE AS APPROPRIATE FOR YOUR POS

| | |
|---------------------------------|----------------------|
| Total POS ELECTIVE Units | <i>Minimum of 36</i> |
|---------------------------------|----------------------|

TOTAL (CORE + POS ELECTIVE) UNITS = _____
(must be at least 80)

ECO-ENTREPRENEURSHIP FOCUS (OPTIONAL)

Students pursuing an eco-entrepreneurship (Eco-E) focus, must complete 10 units of Eco-E primary courses and at least 4 units of Eco-E elective courses. Students pursuing Eco-E Projects should record ESM 402A under both Core Requirements and Eco-E Focus. Students should record Eco-E primary courses and electives in Sections 1-3, etc., of your POS elective courses if the courses also will be counted toward your specialization.

ECO-E FOCUS: PRIMARY COURSES

| COURSE # | COURSE TITLE | QTR/YR COMPLETED | UNITS | GRADE |
|----------|--|------------------|-------|-------|
| ESM 256A | Intro to Entrepreneurship and New Venture Creation | | 2 | |
| ESM 256B | New Venture Opportunity Analysis | | 4 | |
| ESM 402A | Eco-E Project: New Venture Formation | | 4 | |

| | |
|-----------------------------------|----|
| Eco-E PRIMARY COURSE Units | 10 |
|-----------------------------------|----|

ECO-E FOCUS: ELECTIVES (TAKE AT LEAST 4 UNITS)

| COURSE # | COURSE TITLE | QTR/YR COMPLETED | UNITS | GRADE |
|----------|--|------------------|-------|-------|
| ESM 230 | Strategic Planning for Non-Profit Ventures | | 4 | |
| ESM 269 | Survey Research Design and Evaluation | | 2 | |
| ESM 285 | Environmental Markets | | 4 | |
| ENGR 240 | Business Strategy and Leadership Skills* | | 4 | |
| ENGR 241 | Managing for Innovation* | | 4 | |
| ENGR 244 | Entrepreneurial Marketing* | | 2 | |
| ENGR 246 | New Venture Finance* | | 2 | |
| ENGR 250 | Managing Operations | | 2 | |
| ENGR 251 | Legal and IP Issues in New Ventures | | 2 | |
| ENGR 255 | New Product Development* | | 4 | |

*Several electives for the Eco-E focus (noted with an asterisk above) also are part of the curriculum for the Graduate Program in Management Practice (GPMP), a UC-recognized certificate offered by the Technology Management Program (TMP).

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|---|--|
| Eco-E ELECTIVE Units At least 4 units | |
|---|--|

**TOTAL ECO-E FOCUS UNITS
(PRIMARY COURSE + ELECTIVE) =**

_____ (must be at least 14)

FACULTY SIGNATURES (Required):

Faculty specialization advisor(s) must review and sign the completed POS Form prior to submittal to the Student Affairs Office.

Reviewed and approved by: _____ **Date:** _____
(Signature of Faculty Advisor for Specialization)

Reviewed and approved by: _____ **Date:** _____
(2nd Faculty Advisor Signature for Double Specialization, if applicable)

