

Name: \_\_\_\_\_

Exp. Grad.: Fall \_\_\_\_\_ / Spring \_\_\_\_\_

**Glass Engineering Science  
Curriculum by Semester**  
(For students entering Fall 2017 – Spring 2018)

| <b>Semester 1</b>              |          | <b>Semester 2</b>                                |          | <b>Semester 3</b>       |          | <b>Semester 4</b>       |          |
|--------------------------------|----------|--|----------|-------------------------|----------|-------------------------|----------|
| <b>Course (cr. hr.)</b>        | <b>X</b> | <b>Course (cr. hr.)</b>                          | <b>X</b> | <b>Course (cr. hr.)</b> | <b>X</b> | <b>Course (cr. hr.)</b> | <b>X</b> |
| CHEM 105 (4)                   |          | CHEM 106 (4)                                     |          | CEMS 214 (3)            |          | CEMS 215 (3)            |          |
| ENGL 101 (4)***<br>(If needed) |          | ENGR 104 (2)                                     |          | ENGR 110 (4)            |          | CEMS 216 (3)            |          |
| ENGR 101 (2)                   |          | ENGR 160 (0)                                     |          | ENGR 360 (0)            |          | CEMS 235 (4)            |          |
| ENGR 102 (2)                   |          | MATH 152 (4)                                     |          | MATH 253 (4)            |          | ENGR 360 (0)            |          |
| ENGR 160 (0)                   |          | PHYS 125 (4)                                     |          | PHYS 126 (4)            |          | MATH 271 (3)            |          |
| MATH 151 (4)                   |          | ENGR 11x* (1)                                    |          | Hum/SS/Arts (4)         |          | Hum/SS/Arts (4)         |          |
| Hum/SS/Arts (4)                |          | ENGR 11x* (1)                                    |          |                         |          |                         |          |
|                                |          | *Select 2 ENGR 111-116<br>Engr Explorations Labs |          |                         |          |                         |          |
| <b>Total (16)</b>              |          | <b>Total (16)</b>                                |          | <b>Total (19)</b>       |          | <b>Total (17)</b>       |          |

\*\*\*Credits do not count towards graduation

| <b>Semester 5</b>       |          | <b>Semester 6</b>       |          | <b>Semester 7</b>       |          | <b>Semester 8</b>       |          |
|-------------------------|----------|-------------------------|----------|-------------------------|----------|-------------------------|----------|
| <b>Course (cr. hr.)</b> | <b>X</b> | <b>Course (cr. hr.)</b> | <b>X</b> | <b>Course (cr. hr.)</b> | <b>X</b> | <b>Course (cr. hr.)</b> | <b>X</b> |
| CEMS 237 (4)            |          | CEMS 251 (3)            |          | CEMS 342 (4)            |          | CEMS 328 (3)            |          |
| CEMS 322 (3)            |          | CEMS 325 (2)            |          | CEMS 423 (3)            |          | ENGR 360 (0)            |          |
| CEMS 347 (2)            |          | CEMS 344 (4)            |          | ENGR 360 (0)            |          | ENGR 480 (2)            |          |
| CEMS 349 (2)            |          | ENGR 220 (4)            |          | ENGR 480 (2)            |          | Hum/SS/Arts (4)         |          |
| ENGR 305 (3)            |          | ENGR 360 (0)            |          | Tech elective (3)       |          | Tech elective (3)       |          |
| ENGR 306 (2)            |          | ENGR 395 (2)            |          | Tech elective (3)       |          | Tech elective (3)       |          |
| ENGR 360 (0)            |          | Tech elective (3)       |          |                         |          |                         |          |
|                         |          |                         |          |                         |          |                         |          |
| <b>Total (16)</b>       |          | <b>Total (18)</b>       |          | <b>Total (15)</b>       |          | <b>Total (15)</b>       |          |

**Additional Requirements:**

1. AU Global Perspective
2. AU Physical Education Requirement
3. SOE Minimum Credit Requirement: At least 128 credits, excluding physical education
4. SOE GPA requirement and 'D' policy
5. SOE Written Communication Requirement: Typically ENGL 101 and ENGR 110. Some students may be exempt from ENGL 101, which does not count towards the minimum credits required for graduation.
6. SOE Humanities/Social Science/Arts Requirement

[Current SOE requirements](#)[Degree Evaluation](#)**Definitions of Electives:**

*Technical Electives:* (1) Most 300- and 400-level courses designated CEMS, CHEM, ENGR, MATH, MECH, PHYS, or

RNEW. Exceptions include MATH 331 and some special topic courses. (2) One of FIN 348 **OR** MGMT 328 for all majors except BME; (3) BIOL Electives listed above for BME only, (4) CEMS 203 for MSE majors only

Name: \_\_\_\_\_

Exp. Grad.: Fall \_\_\_\_ / Spring \_\_\_\_

**Glass Engineering Science  
Progress toward Degree (1/2)**  
(For students entering Fall 2017 – Spring 2018)

**Directions:** Before submitting an *Application for Graduation* to the Registrar's Office, students should complete this *Progress toward Degree Form* in consultation with their advisor.

| Written Communication Requirements | Req. Cr. hrs. | Substitution/Waiver/Transfer & Institution, if not AU | Cr. Hrs. or IP* |
|------------------------------------|---------------|---|-----------------|
| ENGL 101 or equivalent             | 0             |   |                 |
| ENGR 110 – Technical Comm.         | 4             |   |                 |

| Humanities / Social Science / Arts Requirements | Substitution/Waiver/Transfer & Institution, if not AU | Designation: A,B,C,D,E, II | Cr. Hrs. or IP* |
|---|---|----------------------------|-----------------|
|   |   |                            |                 |
|   |   |                            |                 |
|   |   |                            |                 |
|   |   |                            |                 |
|   |   |                            |                 |
|   |   |                            |                 |
| <b>Hum/SS/ Arts Total (≥ 16 cr. hrs.)</b>       |   |                            |                 |

| Humanities/Social Science/Arts Additional Requirements          | Check if met (X or NA) |
|---|------------------------|
| At least 16 credits (excluding ENGL 101 and ENGR 110)           |                        |
| At least 3 Designated Areas                                     |                        |
| No more than 4 credit hours of Arts counting towards 16 credits |                        |

| Mathematics Requirements | Req. Cr. hrs. | Substitution/Waiver/Transfer & Institution, if not AU | Cr. Hrs. or IP* |
|--------------------------|---------------|---|-----------------|
| MATH 151                 | 4             |   |                 |
| MATH 152                 | 4             |   |                 |
| MATH 253                 | 4             |   |                 |
| MATH 271                 | 3             |   |                 |
| ENGR 305                 | 3             |   |                 |
| <b>Mathematics Total</b> | <b>18</b>     |   |                 |

| Chemistry Requirements | Req. Cr. hrs. | Substitution/Waiver/Transfer & Institution, if not AU | Cr. Hrs. or IP* |
|------------------------|---------------|---|-----------------|
| CHEM 105               | 4             |   |                 |
| CHEM 106               | 4             |   |                 |
| <b>Chemistry Total</b> | <b>8</b>      |   |                 |

| Physics Requirements | Req. Cr. hrs. | Substitution/Waiver/Transfer & Institution, if not AU | Cr. Hrs. or IP* |
|----------------------|---------------|---|-----------------|
| PHYS 125             | 4             |   |                 |
| PHYS 126             | 4             |   |                 |
| <b>Physics Total</b> | <b>8</b>      |   |                 |

\*Enter number of credit hours completed or IP (In progress)

Name: \_\_\_\_\_

Exp. Grad.: Fall \_\_\_\_\_ / Spring \_\_\_\_\_

**Glass Engineering Science  
Progress toward Degree (2/2)**  
(For students entering Fall 2017 – Spring 2018)

| Basic Engineering Requirements | Req. Cr. hrs. | Substitution/Waiver/Transfer & Institution, if not AU | Cr. Hrs. or IP* |
|--------------------------------|---------------|---|-----------------|
| ENGR 101                       | 2             |   |                 |
| ENGR 102                       | 2             |   |                 |
| ENGR 104                       | 2             |   |                 |
| ENGR 111-116 (select 2)        | 2             |   |                 |
| <b>Basic Engineering Total</b> | <b>8</b>      |   |                 |

| Ceramic Engineering Requirement  | Req. Cr. hrs. | Substitution/Waiver/Transfer & Institution, if not AU | Cr. Hrs. or IP* |
|----------------------------------|---------------|---|-----------------|
| CEMS 214                         | 3             |   |                 |
| CEMS 215                         | 3             |   |                 |
| CEMS 216                         | 3             |   |                 |
| CEMS 235                         | 4             |   |                 |
| CEMS 237                         | 4             |   |                 |
| CEMS 251                         | 3             |   |                 |
| CEMS 322                         | 3             |   |                 |
| CEMS 325                         | 3             |   |                 |
| CEMS 342                         | 4             |   |                 |
| CEMS 344                         | 4             |   |                 |
| CEMS 347                         | 2             |   |                 |
| CEMS 349                         | 2             |   |                 |
| CEMS 423                         | 3             |   |                 |
| ENGR 220                         | 4             |   |                 |
| ENGR 306                         | 2             |   |                 |
| ENGR 395                         | 2             |   |                 |
| ENGR 480                         | 4             |   |                 |
| Technical Elective I             | 3             |   |                 |
| Technical Elective II            | 3             |   |                 |
| Technical Elective III           | 3             |   |                 |
| Technical Elective IV            | 3             |   |                 |
| Technical Elective V             | 3             |   |                 |
| <b>Ceramic Engineering Total</b> | <b>70</b>     |   |                 |

| Additional Requirements                             | Substitution/ waivers, if any                       | Met? (X) |
|---|---|----------|
| Engineering seminar                                 |   |          |
| Global Perspective                                  |   |          |
| ENGR GPA and "D" Policy                             | N/A   |          |
| Physical Education / Wellness I                     |   |          |
| Physical Education / Wellness II                    |   |          |
| <b>Total Eligible Credits <math>\geq</math> 128</b> | <b>(excluding ENGL 101 &amp; Phys. Ed. Credits)</b> |          |

\*Enter number of credit hours completed or IP=In progress