### B.S. BIOCHEMISTRY

Use this check sheet with your Degree Progress Report (DPR).

☐ To learn about requirements for admission to the major, please visit: [http://www.kuub.ku.edu/admission](http://www.kuub.ku.edu/admission)

### KU CORE REQUIREMENTS

See [https://kucore.ku.edu/fulfilling-the-core](https://kucore.ku.edu/fulfilling-the-core) for approved KU Core courses and/or experiences.

| Goal 1. Critical Thinking & Quantitative Literacy | Outcome 1 (Can be satisfied by degree reqs.) | Outcome 2 (Can be satisfied by degree reqs.) |
| Goal 2. Communication | Outcome 1 | Outcome 2 |
| Goal 3. Breadth of Knowledge | Arts & Humanities | Social Sciences | Natural Sciences (Can be satisfied by degree reqs.) |
| Goal 4. Culture & Diversity | Outcome 1 | Outcome 2 |
| Goal 5. Social Responsibility & Ethics | ☐ | ☐ |
| Goal 6. Integration & Creativity | (Can be satisfied by degree reqs.) |

### GENERAL SCIENCE REQUIREMENTS (37–40 h)

- **BIOL 105** Biology Orientation Seminar (1) ☐ CHEM 336 Organic Chemistry II Lab (2) ☐
- **CHEM 130/170** Chemistry I (5) ☐ MATH 121 & 122 Calculus I & II (10) OR ☐
- **CHEM 135/175** Chemistry II (5) ☐ MATH 125 & 126 Calculus I & II (8) ☐
- **CHEM 330** Organic Chemistry I (3) ☐ PHSX 211+216 & 212+236 General Physics I & II (9) OR ☐
- **CHEM 331** Organic Chemistry I Lab (2) ☐ PHSX 114 & 115 College Physics I & II (8) ☐
- **CHEM 335** Organic Chemistry II (3) ☐

### BIOCHEMISTRY REQUIREMENTS (34 h)

- **BIOL 150/151** Prin Molecular & Cell Biol (4) ☐ BIOL 672 Gene Expression (3) ☐
- **BIOL 152/153** Prin Organismal Biology (4) ☐ BIOL 599 Senior Seminar: Biochemistry (1) (must be taken Sr yr) ☐
- **BIOL 350/360** Principles of Genetics (4) ☐ CHEM 620 Analytical Chemistry (3) ☐
- **BIOL 636** Biochemistry I (3) ☐ CHEM 621 Analytical Chemistry Laboratory (2) ☐
- **BIOL 637** Introductory Biochemistry Lab (2) ☐ CHEM 510 Biological Physical Chemistry (3) OR ☐
- **BIOL 638** Biochemistry II (3) ☐ CHEM 530 Physical Chemistry (3) ☐
- **BIOL 639** Advanced Biochemistry Lab (2) ☐

### BIOCHEMISTRY ELECTIVE REQUIREMENTS (12 h): BIO courses numbered 400 or higher must be selected in consultation with a Biochemistry advisor. Some suggested courses are the following:

- **BIOL 400/401** Fund Microbiology (3) ☐ **BIOL 424** Independent Study (variable) ☐ **BIOL 518** Microbial Genetics (3) ☐
- **BIOL 408** Physiology of Organisms (3) ☐ **BIOL 430** Lab in Molecular Biology (3) ☐ **BIOL 688** Molecular Biology of Cancer (3) ☐
- **BIOL 416/536** Cell Structure & Function (3)

No more than 3 h of BIO 423 Non-Lab Independent Study and/or BIO 424 Independent Study (combined) can be applied towards the elective requirement.

### Notes:

- Completing the minimum General Science and major requirements set forth above results in 83 overall h and 48 Jr/Sr h. Double majors must complete ≥ 15 h in the major (i.e., not in Core/Gen Ed Reqs or General Science Reqs) that are unique to that major. 83 h ☐ 48 Jr/Sr h ☐
- At least 120 h (of which 45 must be Jr/Sr h)—courses numbered 300 or above must be completed for graduation. 120 h ☐ 45 Jr/Sr h ☐

5/7/2015