I= Introduced

| | Courses Mapped to Outcomes | | | | | | |
|--|----------------------------|-----------------------------|------------------------------|----------------------------------|----------------------------------|---------------------------------|--|
| Knowledge, skill, or behavior students can demonstrate upon program completion | Chem 311 Biochemistry I | Chem 314 Biochemistry II | Chem 315 Biochemistry Lab | Bio 366 Molecular Bio and Lab | Chem 343 Physical Chemistry I | Chem 345 Physical Chem Lab I | |
| Fundamental Knowledge: Students will demonstrate knowledge in all major fields of chemistry (analytical, biochemistry, inorganic, organic, and physical) and in broad biological topics (organismal, cellular, molecular and genetic levels of biological organization). | R | М | M | R | R | R | |
| Practical Skills and Safety: Students will show understanding in the theory and practice of laboratory techniques and major instrumentation, and will use safe procedures in a biology, chemistry and biochemistry laboratory. | R | R | M | M | R | М | |

Analytical Skills: Students will demonstrate problemsolving skills, biological and chemical

| will express confidence in their abilities to engage in scientific inquiry. | | | | | | |
|---|---|---|---|---|---|---|
| Scientific Communication Skills: Students will show proficiency in scientific communication including laboratory notebooks, laboratory reports, research proposals, journal articles, oral and poster presentations, and working in groups. | R | R | R | R | R | М |
| Professional outcomes: Students will demonstrate an understanding of the connections between biochemistry and other science disciplines. Students will have a successful transition to their post-college activities. | I | R | М | R | R | R |

essment Tools

Date: 5/12/2020

| Timeline/Frequency of Assessment | Target | Review |
|----------------------------------|---|--------|
| a. Every year | Chem 125/6: average above 50th percentile | !!!! |
| DIOL I I I AODAAD | • | |

Bi Students take ASBMB exam SerBor year

314: average above 65th percentile

Bio: Cohort we 6e am wviv .6 (w)irov 49.76 402.6 Tmn2.6 Tmp0 97 (4)2 (:)1.3 (a)12.3 (

Scientific Inquiry Skills: