Proposal to change 3+2 Engineering Curriculum.

The expectations of our affiliated engineering schools have shifted over time. We would like to adjust the 3+2 curriculum in order to adapt to these changes.

First, the various engineering subfields have reached a consensus of using Matlab as the default programming language. The Department of Physics has developed a course, Phys 102, to address this need. For this reason it is proposed that the current requirement of Math/CS 21 be replaced with Phys 102.

Second, there has been an increased specificity in the required courses for each sub-discipline of engineering. In order to accommodate this shift we propose to remove the requirement of taking both Phys 60 and Chem 10/11 and replace it with a requirement of taking Phys 60 or Chem 10/11, and at the same time increase the number of electives from 4 to 5. These two courses were selected because Phys 60 is no longer needed for Chemical Engineering and Chem 10/11 is no longer needed for most other branches of Engineering.