Policy on deficiency Courses – Revised SU2015

For graduate students admitted to the Graduate School of Kansas State University (KSU) to pursue graduate degrees through the Department of Biological and Agricultural Engineering (BAE), the following policy for deficiency removal is approved by the BAE Graduate Committee in August, 2015:

1. The following mathematics, physics, and chemistry courses or their equivalents are required for all applicants. Applicants who do not meet these requirements should take the courses they have not taken on the list for deficiency removal:

   MATH 220       Analytical Geometry and Calculus I
   MATH 221       Analytical Geometry and Calculus II
   MATH 222       Analytical Geometry and Calculus III
   PHYS 213       Engineering Physics I
   PHYS 214       Engineering Physics II
   CHEM 210       Chemistry I
   CHEM 230       Chemistry II

2. The following courses for deficiency removal are listed for an applicant with a B.S. degree in an engineering discipline which is different from biological, agricultural, and other similarly named engineering, or an applicant with a non-engineering B.S. degree:

   GROUP A:
   CE 530       Statics and Dynamics
   ME 513       Thermodynamics I
   ME 571       Fluid Mechanics

   GROUP B:
   BAE 450      Off-Road Machinery Power Components
   BAE 545      Biological Process Engineering
   BAE 560      Natural Resource Engineering I
   BAE 640      Instrumentation and Control for Biological Systems

   a. Required deficiency courses for an applicant with a B.S. degree in an engineering discipline which is different from biological, agricultural, or other similarly named engineering:

      • BAE 445      Biological Engineering Fundamentals
      • One course out of Group A*
      • One course out of Group B*
*Depending on a student’s background and research interest area

b. Required deficiency courses for an applicant with a non-engineering B.S. degree:

- BAE 445 Biological Engineering Fundamentals
- Two or three courses out of Group A*
- One course out of Group B*

*Depending on a student’s background and research interest area

3. The student’s major professor, based on the student’s academic background and research area, may require other deficiency courses.

4. The provisional status must be removed by successful completion of the deficiency courses with grades of A or B.

5. Generally, faculty will not pay tuition for the deficiency courses.