

TOTAL EXAMINATION PROGRAM
PEO Syllabus of Examinations, 2004 Edition

AGRICULTURAL ENGINEERING

INTRODUCTION

A full set of Agricultural Engineering examinations consists of the following, three-hour examination papers and an engineering report. Candidates will be assigned examinations based on an assessment of their academic background. Examinations from discipline syllabi other than those specific to the candidates' discipline may be assigned at the discretion of PEO's Academic Requirement Committee.

BASIC STUDIES EXAMINATIONS

04-BS-1	Mathematics
04-BS-2	Probability and Statistics
04-BS-3	Statics and Dynamics
04-BS-6	Mechanics of Materials
04-BS-7	Mechanics of Fluids
04-BS-10	Thermodynamics
04-BS-11	Properties of Materials
04-BS-12	Organic Chemistry
04-BS-13	Biology
04-BS-15	Engineering Graphics and Design Process

PROFESSIONAL EXAMS – SPECIFIC TO AGRICULTURAL ENGINEERING

GROUP A

04-Agric-A1	Applied Plant, Animal or Human Physiology
04-Agric-A2	Soil Physics and Mechanics
04-Agric-A3	Heat Engineering
04-Agric-A4	Fluid Flow
04-Agric-A5	Principles of Instrumentation
04-Agric-A6	Physical Properties of Biological Materials and Food Products
04-Agric-A7	Chemistry and Microbiology of Foods

GROUP B

04-Agric-B1	Systems Engineering and Materials Handling
04-Agric-B2	Structural Design for Agricultural, Biosystems, and Food Industries
04-Agric-B3	Machine Design for Agricultural, Biosystems, and Food Industries
04-Agric-B4	Machinery Analysis for Agricultural, Biosystems, and Food Industries
04-Agric-B5	Power Units for Agricultural, Biosystems, and Food Industries
04-Agric-B6	Irrigation, Drainage, and Erosion Control
04-Agric-B7	Principles of Hydrology
04-Agric-B8	Food Process Engineering (Part 1)
04-Agric-B9	Food Process Engineering (Part 2)
04-Agric-B10	Biochemical Engineering
04-Agric-B11	Principles of Waste Management
04-Agric-B12	Principles of Biological Waste Treatment
04-Agric-B13	Control and Monitoring
04-Agric-B14	Aquacultural Engineering
04-Agric-B15	Design of Buildings for Agricultural, Biosystems, and Food Industries

COMPLEMENTARY STUDIES

98-CS-1	Engineering Economics
98-CS-2	Engineering in Society – Health, Safety, and the Environment
98-CS-3	Management Concepts for Engineers
3.2	Engineering Report