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Admissions Engineering Information Handout

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Rhodes College
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ENGINEERING

Rhodes partners with two universities to offer a dual degree engineering program that graduates students who are “liberally educated engineers”, having the benefits of specialization and the breadth of a liberal arts education. These students possess strong communication and problem-solving skills, and a broad background in the humanities and social sciences as well as a high-quality technical education. These programs train leaders and innovators in science, engineering, business, liberal and fine arts.

Bachelor’s Dual Degree Program with Washington University

Rhodes and Washington University in St. Louis partner in this way so that students attend Rhodes for either three or four years, gain admission to the engineering school at Washington University and in two additional years, complete engineering studies in their desired area. Upon completion of the program, students receive a B.S. degree from Rhodes and a B.E. degree from Washington University.

The advantages of this program include: the ability to complete degrees in two diverse areas under a well-planned curriculum; the advantage of gaining extra time for the pursuit of other academic, athletic or extracurricular interests; and the opportunity to use the supportive, personalized environment of Rhodes to develop the skills and confidence needed for success in engineering.

Financial Assistance

Although fellowships and financial assistance do not transfer from Rhodes to Washington University, Washington University offers several merit-based scholarships for its engineering program, and the opportunity to apply for financial assistance. Typically, students can expect to receive about the same amount of need-based financial assistance from Washington University as they do from Rhodes.

Rhodes Program Requirements for Washington University Dual Degree Program

- The following core courses required for admission to the Washington University School of Engineering:
 - Calculus I, II, III, Differential Equations

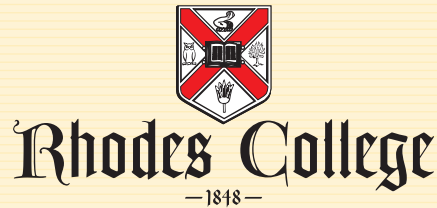
- Fundamentals of Physics I and II with labs
- General Chemistry I and II with labs
- Computer Science I

- All Foundations Requirements outlined in the Rhodes College catalogue
- Additional requirements in the major department, depending on the course of engineering to be pursued at Washington University
- Washington University’s additional requirement in the humanities and social sciences (minimum of 8 hours in one department including one 300-400 level course)

Bachelor’s and Master’s Dual Degree Program in Biomedical Engineering with the University of Memphis / University of Tennessee

Rhodes also partners with the Joint Graduate Program in Biomedical Engineering, which is shared by The University of Memphis and The University of Tennessee Health Sciences Center, to offer a dual degree program in biomedical engineering. In this program, students complete three years of work at Rhodes, majoring in Physics or Chemistry, and then complete two years of graduate work in the Biomedical Engineering Department at the University of Memphis/ University of Tennessee. At the completion of this program the student receives a bachelor’s degree from Rhodes and a master’s degree in biomedical engineering from the University of Memphis and the University of Tennessee.

This program is designed for students interested in the engineering aspects of the medical world, serving those who are interested in completing a master’s degree in biomedical engineering (BME), pursuing a bachelor’s degree at Rhodes in Physics or Chemistry,



and are seeking a way to work in a research laboratory while they study. Students will be able to complete both degrees in five years, and will receive a paying job in a laboratory once accepted into the program. In addition, all students, once they reach senior status (within two semesters of graduation with their bachelor's degree) will become eligible for graduate assistantships (GA). The typical GA includes a full tuition-and-fees scholarship and a monthly salary. Students remain in GA status throughout their senior year and their graduate year.

Learning by doing is central to this program. Students will join research teams organized through Rhodes College and/or the Joint Graduate Program in Biomedical Engineering. Such teams include collaborators at internationally recognized laboratories at several sites, including St. Jude Children's Research Hospital, LeBonheur Children's Medical Center, and the Memphis VA Medical Center.

Students can apply once they have reached sophomore standing and have completed one semester of course work. Application includes an application form, one letter of reference and a copy of the student's transcript. Each applicant will be required to complete an interview with a pre-graduate advisor. In order to remain in the program past the junior year, students must maintain a GPA of at least 3.25.

For more information

Students interested in the programs may contact Professor A. M. Viano at (901) 843-3912 or by e-mail at viano@rhodes.edu.

You may also contact the Rhodes Admissions Office at 1-800-844-5969. Information is also available via the Internet at adminfo@rhodes.edu and on our Web site at rhodes.edu/admissions/default.asp.

Program Requirements for Biomedical Engineering Dual Degree Program

- Satisfy all Foundations Requirements outlined in the Rhodes College catalogue.
- Take the following core courses:
 - Calculus I, II, III, Differential Equations
 - Computer Science I
 - Fundamentals of Physics I and II with labs
 - General Chemistry I, and II with labs
- Complete the following additional requirements depending on the specific major chosen at Rhodes College:
 - Chemistry Major**
 - Organic Chemistry I and II with labs
 - Physical Chemistry I and II with labs
 - Electronics
 - Dynamics
 - Physics Major**
 - Modern Physics with lab
 - 2 approved courses at the 300-level or higher
- Complete the following additional undergraduate requirements at The University of Memphis:
 - Mechanics of Materials
 - Mechanics of Fluids
- Complete a minimum of 124 credit hours from Rhodes and accepted transfer courses. The successful completion of requirements above is necessary to fulfill the requirements for the B.S. degree.
- Complete the following graduate courses at The University of Memphis and/or The University of Tennessee:
 - Measurements and Instrumentation (BIOM 720)
 - BME Analysis I (BIOM 7101)
 - Life Science I and II (BIOM 7004 and 7005)
 - 6 credits towards the MS Thesis (BIOM 7996)
- One additional graduate math elective course and three additional graduate engineering elective courses. These are selected in consultation with the graduate adviser.
- Enrollment in the BME seminar/professional development course(s) is also required.
- Students are expected to complete an oral master's thesis defense.