MEMORANDUM

TO: Institute Graduate Committee, Charles Liotta, and Maureen Kilroy

FROM: Amyn S. Teja, Associate Chair for Graduate Programs, ChE

SUBJECT: Request for Approval of 5-Year BS/MS Program in Chemical Engineering

The faculty of the School of Chemical Engineering have approved the following and ask the Institute Graduate Committee for its approval:

1. Admission of Georgia Tech Chemical Engineering undergraduate students into the graduate program upon completion of 30 semester credit hours at Georgia Tech with a GPA of at least 3.5. The applicant must submit an application (draft attached), an essay (draft attached), and one letter of recommendation from a Georgia Tech faculty member. Students must maintain a GPA of at least 3.0 to continue in the program.

2. Students who participate in the 5-Year BS/MS Program and maintain eligibility in this program (GPA of 3.0 or higher) automatically qualify for the 6 semester-hour “Graduate Course” option.

Recommended:

__________________________________________
Ronald W. Rousseau, Chair
School of Chemical Engineering
Date

__________________________________________
Don Giddens, Dean, College of Engineering
Date

__________________________________________
Jean-Lou Chameau, Provost
Date

xc: GT Undergraduate Committee
Five-Year BS/MS Program
School of Chemical Engineering

Summary

The School of Chemical Engineering proposes to establish a five-year BS/MS Program to accommodate the needs of some of the best students enrolled in the School, and to encourage the best high-school students to enroll in the Chemical Engineering program. The BS/MS program is modeled after the programs already adopted in the Woodruff School of Mechanical Engineering, the School of Material Science and Engineering, and the School of Electrical and Computer Engineering.

An increasing number of our best students understand the need for education beyond the BS degree. A five-year BS/MS Program will help us meet the needs of these students for an advanced education, and also help us in recruiting top high school students into our undergraduate program. Moreover, the program should foster a richer undergraduate experience for our students and thereby lead to improved retention rates.

Target Audience

This program seeks to engage undergraduate students who indicate an interest in, and ability for, additional education beyond the BS degree. The key components of such a program are: (1) A meaningful undergraduate research experience (ChE 4900, Undergraduate Research Project); and (2) Careful advising and course-planning to enable students to begin graduate coursework in the fourth year of study. Students with significant AP credit will be especially well positioned to take full advantage of this opportunity.

How the Program Would Work

Students in the BS/MS Program will remain undergraduates until they meet the requirements for the BS degree, at which point they will receive their degree and will change their status to that of graduate students.

Students will be eligible to apply for the program after completion of 30 semester credit hours at Georgia Tech (i.e. at the end of the Freshman Year). As a practical matter, students will need to apply before the completion of 75 semester-credit hours (mid-point of Junior Year) to include transfer credit and AP credit. Students must have a Georgia Tech GPA of 3.5 or higher for admission into the Five Year BS/MS Program in Chemical Engineering.

Graduate Admissions and Enrollment Services (GAES) will process a streamlined application (application fee waived, no GREs, one recommendation
letter from a Georgia Tech faculty member, and a short essay) and forward to the Graduate Coordinator. The application must be endorsed by the student’s academic advisor in the School. Admission into the program will be based on academic performance at Georgia Tech, as well as the potential for advanced study and/or research as assessed from the essay. Upon admission, GAES will target the student for a projected starting graduate study term. The admit record will be flagged, however, so that it will not convert to a graduate student record until the student has graduated with a BS degree. Close coordination will be necessary between GAES, and the Program Coordinator in the home unit to affect this transition at the proper time.

Continuation in the program will require the student to maintain a GPA of 3.0 or higher. This GPA requirement should not deter students from taking challenging courses. The program will not penalize students who opt out after the BS degree. Students participating in the program will be eligible for the 6 credit-hour "Graduate Course Option" as described in the Institute Catalog.

BS/MS Program Coordination

Initially, the Associate Chair for Graduate Programs will be assigned as the Program Coordinator. The Program Coordinator will be responsible for targeting and identifying prospective students for the program, and for developing recruitment strategies to attract the "best and the brightest" into the program. The Program Coordinator will also monitor students after they are accepted into the program to help ensure their success at Tech. Furthermore, the Program Coordinator will monitor the curricular progress of the students to ensure that graduate level coursework can be taken during the fourth year of study.

Recruitment

Prior to the May 1 deposit deadline each year, the Program Coordinator (perhaps together with other BS/MS Program Coordinators) will write to high school students who have been accepted into the College of Engineering and encourage these students to choose Tech and to consider the BS/MS program.

Recruitment of currently enrolled Georgia Tech students would focus on students with 30 to 75 semester hours of credit. Students with the appropriate credentials would be contacted by mail and via student forums. The student leadership (AIChe and Omega Chi Epsilon student chapters) would also be encouraged to promote this program.
APPLICATION FOR BS/MS JOINT PROGRAM ADMISSION
GEORGIA INSTITUTE OF TECHNOLOGY, ATLANTA, GEORGIA 30332-0321
A UNIT OF THE UNIVERSITY SYSTEM OF GEORGIA

Please read all instructions carefully. Type or print neatly in dark ink, (bearing down firmly to guarantee a readable copy). You must sign and date this application, verifying that all information is true and correct.

1. Georgia Tech Student ID Number: __________________________ When did you first enter Georgia Tech? __________________________

2. U.S. Social Security Number: __________________________ (used for identification purposes)

3. Full Legal Name: _____________________________________
   _____________________________________
   _____________________________________
   Last Name (Family Name) First Name (Personal Name) Middle Name
   Suffix (e.g., Jr.)

4. Will we possibly receive records for you under any other name?  □ Yes  □ No  If yes, what name? __________________________

5. Permanent Mailing Address
   Street __________________________
   City __________________________
   State __________________________ Country ________ Zip ________
   Permanent/Home Telephone __________________________

6. Georgia Tech PO Box: __________________________
   Current Mailing Address (if different from PO Box)
   City __________________________
   State __________________________ Country ________ Zip ________
   E-mail address: __________________________
   Current Telephone __________________________

7. As an Undergraduate, were you considered a Georgia Resident?  □ Yes  □ No

8. Has your citizenship status changed since you entered Georgia Tech?  □ Yes  □ No
   If yes, you must complete Question 9. If no, go to Question 10.

9. Citizenship
   □ U.S. Citizen
   □ Non-US Citizen
   Country of Citizenship (if not U.S.): __________________________
   Visa Type (e.g., PR, F1, H1, J1): __________________________
   [If Permanent Resident (PR), you must include a copy of your Alien Registration card, front and back, or you will be coded as International.]

10. Current Academic Level:  □ 1st Semester Sophomore  □ 2nd Semester Sophomore  □ 1st Semester Junior  □ Other ________
11. Do you wish to be considered for 5th year (graduate) financial assistance?  □ Yes  □ No  Do you require financial assistance?  □ Yes  □ No

12. Academic History
   A. List each institution after secondary school, including Georgia Tech, that you have attended or are attending. List all post-secondary degrees which have been or will be earned by your planned enrollment date. Continue on a separate sheet if necessary. Official transcripts are required from each institution you attended for a year or more unless they are currently on file with Georgia Tech Office of the Registrar (GIT transcript not required).

   Name of Institution                Location           Attendance From To Degree & Major Degree Date GPA On File With GIT
   (mm/yy) (mm/yy)                    (mm/yy)                          YES NO

   B. GRE (optional) Date taken or to be taken: ____/____ (mm/yy) Scores: V _____ (raw) _____(%) Q _____ (raw) _____(%) A _____ (raw) _____(%) TOEFL (required for most non-citizens) Date taken or to be taken ____/____ (mm/yy) Score: _____

Return Completed Form To: Graduate Admissions
School of Civil and Environmental Engineering
Georgia Institute of Technology
Atlanta, Georgia 30332-0100

I certify that the information provided in this application is true and complete. I understand that omission or misrepresentation of information herein may result in automatic rejection of my application to Georgia Tech. If admitted, I agree to abide by the Rules and Regulations and the Academic Honor Code of the Georgia Institute of Technology.

Signature of Applicant ________________________________ Date __________________________
GEORGIA INSTITUTE OF TECHNOLOGY
APPLICATION FOR BS-MS PROGRAM

Biography Form

Name:

Date

Address:

Street

City State Zip

Social Security No. Telephone: and

present permanent

Email address:_______________________________________________________________

Degree Program: MSCE _____ MSEnvE _____ MSESMA_____
IN NO MORE THAN TWO PAGES, PLEASE ANSWER THE FOLLOWING:

(1) What will graduate school enable you to accomplish?
(2) What are your interests and ambitions?
(3) How will admission into this program enhance your scholarly and career goals?

USE BACK OF PAGE OR ATTACHMENTS

Mail To: Associate Chair for Graduate Programs
School of Chemical Engineering
Georgia Institute of Technology
Atlanta, GA 30332-0355