Sci-Engineers Not Planning Drastic Overhaul Next Year

By STEPHEN McCLEARY

Science and engineering departments plan several important changes for next year, although there is to be no such drastic overhauling of curricula as in some of the humanities departments.

The changes affect individual courses only. The policy of the science and engineering sections is to proceed with continuous, gradual change instead of occasional giant steps. The way for gradual change was paved by the flexibility in modifying requirements which these departments received last year. Another reason for the paucity of changes is that quite a few changes were made at that time.

TWO IMPORTANT changes have been made in mathematics. Academic Math 100 has been eliminated. Math 101 and science-engineering Math 100 are now the only freshman courses.

Very regrettable is the abolition of Math 310 (advanced junior calculus), but the slack may be partially taken up by addition of new material to Math 300. Also, Math 310 may return in the future. Nevertheless, this year's 210 students will not be able to take the intended sequel to 210. Incidentally, 210 will be retained.

Several faculty changes have been made. Dr. A. J. Lohwater will leave permanently and Dr. Johnson for a year. Dr. Richard O'Neill, from De Paul University, has been added to the staff.

CHEMISTRY'S BIG change affects next year's sophomores. Chemistry 300 (organic) will be taken by sophomore chemistry and chemical engineering majors as chemistry 200. For those who want to take organic as an advanced course, the number will still be 300.

Chemistry 220 (quantitative analysis) and 230 (instrumental analysis) will both be one-semester courses.

It is hoped that pre-meds, many of whom have carefully avoided the year-long 220 course in the past by taking quantitative analysis in summer school, will

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take the one semester course at Rice.

BIOLOGY HAS MADE a
minor change to complement that
in chemistry. Biology 200a (zo-
ology) will also be offered the
second semester for pre-meds
who have taken Chemistry 220
the first semester. After next
year, it will be offered only in
the spring.

For next year only, Biology
350b (embryology) will be drop-
ped to make room for two sem-
esters of zoology.

The staff will be supplemented
by the return of Dr. Clark Read
from Europe and by the addition
of Dr. Val Woodward from the
University of Wichita.

THE PHYSICS department
expects no major changes and
the geology department reports
the addition of Dr. Burchfiel,
who obtained his doctorate from
Yale, but no curriculum changes.

The four engineering depart-
ments are strengthening their
graduate programs and hope to
award several doctorates in the
next few years. Another change
affecting all departments will be
the replacing of the engineering
computer (not the big computer)
by an IBM 620.

ELECTRICAL engineering
juniors will take a new course, ME 395b (materials science),
from the ME department. EE
seniors will take ME 401a (classical thermodynamics) and
ME 402b (statistical thermodynamics) instead of ME 403. The
new courses will be more theo-
retical. EE 403 has been dropped.

There will be two visiting pro-
fessors, Dr. M. J. Jevons from
Birmingham, England, and Dr.
Johan Zuidweg from Voorburg,
in the Netherlands. An addition
may also be made to the per-
manent staff to aid in develop-
ing the graduate program.

IN CIVIL engineering, CE
355 (surveying) has been re-
placed by a more theoretical
course, CE 356 (engineering
measurements). A new course,
CE 490 (computer techniques)
has been added.

Senior CE's will take EE 340a
(electronics) and EE 412b (ma-
chinery and circuits) instead of
EE 403.

Dr. John Merwin, a Rice grad-
uate, will return as an assistant
professor. Dr. Bernard Smith will
return to England and Nat
Krahl will take a leave to finish
his doctorate at Illinois.

The principal change in chem-
ical engineering has been the
addition of more electives in the
fifth year.

SEVERAL CHANGES have
been made in mechanical en-
gineering to satisfy the complaint
that too much of the work of the
last two years was contained in
the senior year.

Instead of EE 403 in the ju-
nior year, ME's will take EE 340a
(electronics) and 412a (mach-
inery and circuits) in the senior
year, while ME 403 (thermo-
dynamics and heat engines) has
been moved to the junior year.

Also in the junior year, CE
355 (surveying) has been re-
placed by ME 395a (material
science) and ME 380b (process
metallurgy).