THE FACULTY SENATE

October 16, 1996

Dr. Ray M. Bowen
President
Texas A&M University

Dear President Bowen:

At its regular meeting held October 14, 1996 the Faculty Senate approved the following curriculum matters and recommends them for your approval.

**New Graduate Courses:** ANTH 629, BUSH 601, BUSH 611, BUSH 612, BUSH 616, BUSH 621, BUSH 622, BUSH 631, BUSH 632, BUSH 641, BUSH 642, BUSH 661, BUSH 662, BUSH 663, BUSH 664, BUSH 665, BUSH 670, BUSH 684, BUSH 685, BUSH 689, INEN 692, MATH 625, PHIL 643, and POLS 606.

**Graduate Course Changes:** RPTS 650, RPTS 636, RPTS 611, RPTS 622, CVEN 606, CVEN 611, CVEN 619, CVEN 620, CVEN 601, CVEN 602, CVEN 603, CVEN 604, CVEN 605, CVEN 609, CVEN 682, PLAN 631, AGEC 604, MGMT 610, INEN 666, INEN 612, INEN 622, INEN 602, AERO 685, BIEN 685, CHEN 685, CVEN 685, CPSC 685, ELEN 685, INEN 685, ITDE 685, NUEN 685, OCEN 685, and SENG 685.

**Graduate Course Withdrawals:** CVEN 640, CVEN 652, CVEN 656, CVEN 658.

**New Undergraduate Courses:** AGSM 125, AGSM 260, AGSM 470, BSEN 354, BSEN 366, BSEN 458, GENE 420, HORT 315, HORT 435, NUTR 203, NUTR 304 and WFSC 405.

**Undergraduate Courses Withdrawals:** AGSM 221, AGSM 222, AGSM 329, AGSM 330, AGSM 416, FSTC 303, FSTC 304, GENE 210, VTPP 911, and VTPP 913.

**Undergraduate Course Changes:** AGEN 471, AGEN 474, AGSM 300, HORT 203, HORT 207, HORT 325, HORT 425, HORT 429, HORT 432, HORT 451, METR 301, METR 304, METR 306, VTPP 910, VTPP 912, and WFSC 406.
Undergraduate Changes in Curricula for the College of Agriculture and Life Sciences: Department of Agricultural Engineering (B. S. in Agricultural Systems Management), Department of Horticultural Sciences (B. S. in Horticulture, B. S. in Floriculture), Department of Animal Science (B.S. in Nutritional Sciences).

Enclosed for your information is a copy of the materials sent to Senators on the above items.

Thank you for considering these items. Please inform me of your action on these recommendations.

Sincerely,

Steven M. Oberhelman
Speaker, 1996-97

Enclosures

pc: Dr. Ronald G. Douglas, Executive Vice President & Provost
Dr. Dan H. Robertson, Chair, Graduate Council
Dr. R. Bruce Simpson, Chair, Curriculum Committee
Ms. Linda F. Lacey, Director, Academic Services

APPROVED

DATE 10-31-96
REVISED REPORT OF THE GRADUATE COUNCIL MEETING
12 September 1996

I. Approved requests for new graduate courses as follows:

ANTH 629. Post-Medieval Seafaring. (3-0). Credit 3. Cultural history of European seafaring from the fifteenth century to the early twentieth century; ship types and their uses, shipping routes and cargoes, maritime technology and economic institutions, seafaring practices, and naval warfare. Prerequisites: ANTH 615 and 616 or approval of instructor.

BUSH 601. Leadership and Public Administration. (3-0). Credit 3. Overview of the field of public administration; theory and practice of leadership. Prerequisites: Graduate classification and approval of MPSA director.

BUSH 611. Public Policy Formation. (3-0). Credit 3. Examination of public policy formation processes in the United States, with an emphasis on national government. Prerequisites: Graduate classification and approval of MPSA director.

BUSH 612. Public Policy Administration. (3-0). Credit 3. Analysis of bureaucracy's role in the American political system: bureaucratic power and the relationship between agencies and their environments; analysis of effective policy implementation and program design. Prerequisites: Graduate classification and approval of MPSA director.

BUSH 616. U.S. Society and the Evolution of Policy Issues. (3-0). Credit 3. Examination of how public policy issues are contested and shaped by the major cleavages in American society such as race and ethnicity, economic and social class, and gender; strategies for building consensus across these divisions. Prerequisites: Graduate classification and approval of MPSA director.

BUSH 621. Economic Analysis. (3-0). Credit 3. Microeconomic analysis of consumers, firms, and markets; macroeconomic analysis of growth and stabilization policies; the government's role in the economy. Prerequisites: Graduate classification and approval of MPSA director.

BUSH 622. Public Finance. (3-0). Credit 3. Framework for positive and normative economic analysis of public sector spending and taxation; application of fundamental analytical principles of public finance to current issues in public policy. Prerequisites: Graduate classification and approval of MPSA director.

BUSH 631. Quantitative Methods in Public Management I. (3-0). Credit 3. Introduction to the common methods for social and policy analysis with a focus on application of methods such as analysis of variance, regression, logit/probit analysis, and structural equations; emphasis on the performance of social and policy analysis, although some statistical theory is introduced. Prerequisites: Graduate classification and approval of MPSA director and STAT 303.

BUSH 632. Quantitative Methods in Public Management II. (3-0). Credit 3. Numerous formal aspects and methods of decision-making useful in public management including benefit-cost analysis, program evaluation, and survey sampling; emphasis on theoretical foundation and practical application; collection and analysis of information, formulation of results, and presentation of conclusions. Prerequisites: Graduate classification and approval of MPSA director.
BUSH 641. Organization Theory for the Public Sector. (3-0). Credit 3. Theories of bureaucracy and control, management, human relations, decision making, and organizational effects of organizations on individuals, the government, and the policy formation process. Prerequisites: Graduate classification and approval of MPSA director.

BUSH 642. Ethics and Public Policy. (3-0). Credit 3. Theory and practice for analyzing and responding to the ethical responsibilities and dilemmas for professional conduct; ethical dimensions of analysis and decision making for policy makers and public administrators. Prerequisites: Graduate classification and approval of MPSA director.

BUSH 661. Public Personnel Administration. (3-0). Credit 3. Organization and operation of civil service personnel systems in American governments. Prerequisites: Graduate classification and approval of MPSA director.


BUSH 663. Natural Resource Economics. (3-0). Credit 3. Critical evaluation of policies and procedures in natural resource development and use; identification of problems in resource development, the political-economic decision-making process and analytical tools which can contribute to economic decisions. Prerequisites: ECON 323. Crosslisted with AGEC 604.

BUSH 664. Business and Public Policy. (3-0). Credit 3. Role of business organization in the United States and other countries; topics pertaining to the external political and social environment of business and the implications for business managers including market failures and political failures as well as equity and ethical issues. Prerequisites: Graduate classification. Crosslisted with MGMT 610.

BUSH 665. Regional Integration in the Americas. (3-0). Credit 3. Examination of theory and application of regional economic, political, and social integration; North American integration from the perspective of NAFTA members; role of multinational enterprises; topics pertaining to the negotiation, impact, and extension of the NAFTA. Prerequisites: Graduate classification and approval of MPSA director.

BUSH 670. Policy Seminar. (3-0). Credit 3. Capstone team exercise in public program design, implementation, and evaluation. Prerequisites: Graduate classification and approval of MPSA director.

BUSH 684. Professional Internship. Credit 1 to 6. Directed internship in a public or private organization to provide on-the-job training with professionals in organizational settings appropriate to the student's professional objectives. Prerequisites: Graduate classification and approval of MPSA director.

BUSH 685. Problems. Credit 1 to 4. Directed individual instruction in selected problems in government and public service. Prerequisites: Graduate classification and approval of MPSA director.
BUSH 689. Special Topics. Credit 1 to 4. Selected topics in an identified area of government and public service. May be repeated for credit. Prerequisites: Graduate classification and approval of MPSA director.

INEN 692. Professional Study. Credit 1 to 9. Approved professional study or project; may be taken more than once, but not to exceed 6 hours of credit towards a degree. Prerequisite: Approval of instructor.

MATH 625. Applied Stochastic Differential Equations. (3-0). Credit 3. Stochastic integration, Itô Calculus and applications of stochastic differential equations to finance and engineering. Prerequisites: MATH 411 or approval of instructor and MATH 446.

PHIL 643. History and Philosophy of Logic. (3-0). Credit 3. Selected topics on the historical development of logic; Philosophical views of the nature of logical theory. The role of logical metatheory in the development of logic. Prerequisite: PHIL 240 or equivalent or approval of instructor.

POLS 606. Advanced Research Methods for Political Scientists. (3-0). Credit 3. Advanced techniques for specialized problems in empirical political analysis, including voter choice models, longitudinal data, elite interviewing, problems of formal theory, and others. May be taken 3 times. Prerequisite: POLS 601, POLS 602 or equivalent.

II. Approved requests for graduate course changes as follows:

Course number, title, description, and prerequisite change

RPTS 680

from: RPTS 650. Principles of Recreation Development and Natural Resources. Theory of resource planning and development and of the role and significant of recreation and tourism in the broader environmental context; evaluation of relevant current and previous action programs in this country and elsewhere. Prerequisite: RPTS 609 or approval of instructor.

to: RPTS 666. Tourism and the Natural Environment. Environmental and natural resource issues in tourism development and travel activity; philosophical issues in nature based- and eco-tourism; sustainable development and tourism; assessment of environmental impacts at macro and micro scales; integrating values into allocation, planning, and management of tourism use of natural resources; the role of tourism in the stewardship of ecosystems. Prerequisite: RPTS 606 or approval of instructor.
Course number, title, and description change

RPTS 636

from: RPTS 636. Travel and Tourism. Tourism and recreational travel; origins, present characteristics and societal impacts; implication of non-business travel in the U.S. and the emerging importance of international recreation.

to: RPTS 606. Overview of Tourism. Introduction to the field of tourism sciences, and an overview of the scale and scope of the industry and business of tourism; the cooperative and dynamic nature of decision-making in tourism; the contributions made by various disciplines towards understanding the consequences of tourism trade and activity; and identification of critical issues in the study of travel and tourism.

Course number, description and prerequisite change

RPTS 611

from: RPTS 611. Tourism Economics. Introduction to decision support systems in tourism including: operating and capital budgeting; measurement of economic impact through input/output analysis; forecasting; project management through PERT/CPM; decision making under uncertainty; brand switching and Markov analysis; value of information; benefit/cost analysis; linear programming. Prerequisite: STAT 651, 652, RPTS 636 or approval of instructor.

to: RPTS 616. Tourism Economics. Introduction to tourism economics including: tourism consumption and demand analysis; operating and capital budgeting; measurement of economic impacts through input/output analysis; forecasting; project management through PERT/CPM; decision making under uncertainty; benefit/cost analysis. Prerequisite: STAT 651, RPTS 606 or approval of instructor.

RPTS 622

from: RPTS 622. Social Impacts of Tourism. The social, anthropological, land use and political dimensions of tourism; examination of behavioral principles which explain tourists; behavior; ways of influencing that behavior to help protect tourism resources; methods of integrating social values into allocation, planning, and managing tourists oriented natural resources. Prerequisite: RPTS 636 or approval of instructor.

to: RPTS 626. Social Impacts of Tourism. Analysis of social, cultural, and political impacts associated with travel behavior and tourism development, emphasizing a case study approach; theories and methods for assessing individual, community, and organization impacts at local and regional levels; host/guest interactions; evaluation of processes of tourism planning and decision-making, and qualitative and quantitative measure for
assessing social impacts. Prerequisite: RPTS 606 or approval of instructor.

Course title, description change and prerequisite.

**CVEN 606**

*from:* Wastewater Treatment Plant Design - Application of the theories of unit operations and unit processes to design wastewater treatment systems for domestic and industrial wastes. Prerequisite: CVEN 402 or approval of instructor.

*to:* Environmental Engineering Design I - Design of engineered environmental systems for water or wastewater treatment in domestic or industrial applications. Prerequisite: CVEN 604 or approval of instructor.

**CVEN 611**

*from:* Water Treatment Plant Design - Design of portable and industrial water systems; application of theories of unit operations and unit processes to the design of systems for treatment of water for domestic and industrial uses. Prerequisite: CVEN 402 or approval of instructor.

*to:* Environmental Engineering Design II - Design of engineered environmental systems. Prerequisite: CVEN 604 or approval of instructor.

**Course description change**

**CVEN 619**

*from:* Environmental Engineering Processes I - Processes that describe behavior of materials in natural and engineered systems including biological degradation, inhibition, photosynthesis, flocculation and sedimentation. Prerequisite: Graduate classification in engineering or approval of instructor.

*to:* Environmental Engineering Processes I - Physical processes that describe behavior of materials in natural and engineered environmental systems including transport phenomenon, sorption, desorption, flocculation and sedimentation. Prerequisite: CVEN 301.

**CVEN 620**

*from:* Environmental Engineering Processes II - Processes for contaminant transformation used in water treatment, wastewater treatment, solid and hazardous waste treatment and disposal. and exposure assessment of contaminants in natural systems; equilibrium and kinetic aspects of neutralization, precipitation, complex formation, adsorption, oxidation-reduction, coagulation, volatilization and absorption. Prerequisite: CVEN 301.
Environmental Engineering Processes II - Chemical processes that describe behavior of materials in natural and engineered environmental systems including neutralization, precipitation, complex formation, absorption, oxidation-reduction, coagulation, volatilization, and absorption. Prerequisites: CVEN 301; course in organic chemistry.

Course prerequisite change

CVEN 601
from: Prerequisites: CHEM 228, CVEN 301.
to: Prerequisites: CHEM 222, CVEN 301

CVEN 602
from: Prerequisites: CVEN 301, 302, 413.
to: Prerequisites: CVEN 601, 619, 620; course in numerical analysis.

CVEN 603
from: Prerequisite: Graduate classification in engineering or approval of instructor.
to: Prerequisite: CVEN 301 or approval of instructor.

CVEN 604
from: Prerequisite: CVEN 402 or approval of instructor.
to: Prerequisites: CVEN 601, 619, 620.

CVEN 605
from: Prerequisite: Graduate classification in engineering or science or approval of instructor.
to: Prerequisite: CVEN 620 or approval of instructor.

CVEN 609
from: Prerequisite: Bachelor's degree in science or engineering.
to: Prerequisite: CVEN 301 or approval of instructor.

CVEN 682
from: Prerequisite: CVEN 402 or approval of instructor.
to: Prerequisites: CVEN 601, 619, 620.
Course crosslisting change

PLAN 631
from: No crosslisting
to: Crosslisted with BUSH 662

AGEC 604
from: No crosslisting
to: Crosslisted with BUSH 663

MGMT 610
from: No crosslisting
to: Crosslisted with BUSH 664

Course number change

INEN 666
from: INEN 666
to: INEN 667

Course contact hours and course credit change

INEN 612
from: (3-3). Credit 4
to: (3-0). Credit 3

Course title change

INEN 622
from: Applied Linear Programming
to: Linear Programming

INEN 602
from: Assurance Sciences
to: Applications of Random Processes
Course contact hours

AERO 685
from: Credit 1 to 4.
to: Credit 1 to 12.

BIEN 685
from: Credit 1 to 4.
to: Credit 1 to 12.

CHEN 685
from: Credit 1 to 6.
to: Credit 1 to 12.

CVEN 685
from: Credit 1 to 6.
to: Credit 1 to 12.

CPSC 685
from: Credit 1 to 4.
to: Credit 1 to 12.

ELEN 685
from: Credit 1 to 4.
to: Credit 1 to 12.

INEN 685
from: Credit 1 to 9.
to: Credit 1 to 12.

ITDE 685
from: Credit 1 to 4.
to: Credit 1 to 12.
NUEN 685
from: Credit 1 to 6.
to: Credit 1 to 12.

OCEN 685
from: Credit 1 to 4.
to: Credit 1 to 12.

SENG 685
from: Credit 1 to 4.
to: Credit 1 to 12.

Courses to be withdrawn

CVEN 640. Heavy and Civil Works Construction
CVEN 652. Soil Dynamics
CVEN 656. Bridge Engineering
CVEN 658. Earthquake Engineering
The University Curriculum Committee recommends approval of the following:

1. **New Courses**

**AGSM 125. Introduction to Agricultural Systems Management.** (0-2). Credit 1. Introduction to technical management of agricultural systems using management projects presented by agricultural managers from industry; problem definition, information search, idea generation and development of management solutions.

**AGSM 260. Occupational Safety Management.** (3-0). Credit 3. Safety considerations in the work environment, including safety mandates, safety mission, personal and business liability, fire, chemical, dust, machine noise, personal protective devices; design and implementation of safety programs.

**AGSM 470. Agricultural Electronics and Control.** (2-2). Credit 3. Technology of electronic systems in agricultural production and processing, sensors, actuators, and controllers, controller hardware and computer bases. Prerequisite: AGSM 325.

**BSEN 354. Engineering Properties of Plant, Animal and Food Materials.** (2-3). Credit 3. Basic principles, definitions and measurement of material properties necessary for understanding behavior of plant, animal and food material; design of processes involving these materials; techniques for property measurement; practical application of concepts. Prerequisite: ENGR 204.

**BSEN 366. Transport Processes in Plant, Animal and Food Systems.** (3-0). Credit 3. Basic principles governing transport of energy and mass; application of these principles to analysis and design of processes and systems involving plants, animals or foods. Prerequisites: BICH 303; ENGR 204.

**BSEN 458. Environmental Control for Plant and Animal Systems.** (3-0). Credit 3. Analysis of environmental and biological factors affecting plant and animal production and welfare; air quality, gas exchange, water use, radiant energy, energetics of animal and plant systems; design of greenhouse systems, livestock systems and environmental control systems. Prerequisites: ENGR 204; BSEN 366.

**GENE 420. Bioethics.** (3-0). Credit 3. The application of ethical theory to the use of modern genetics and biochemistry stressing the social implications of genetic engineering, agricultural manipulation and biotechnology. Prerequisites: GENE 301; BICH 410.

**HORT 315. Component Analysis of Horticultural Systems.** (3-0). Credit 3. Examination of the components of modern horticultural systems, from the effects of plant genetics to the application of computer technology, and their impact on crop production and utilization; introduction to all horticultural production/utilization courses discussing elements and techniques common to all without regard to commodity. Prerequisites: HORT 201, 202.

**HORT 435. Urban Horticulture.** (3-0). Credit 3. Introduction to urban horticulture and its role in community development and well-being; emphasis on career opportunities and the roles of the urban horticulture programmer. Prerequisite: Junior or senior classification.

NUTR 304. Food Service Systems and Management. (3-4). Credit 5. Principles of food service management used in selecting, storing, preparing and serving food in quantity; emphasis on menu planning, quality control, purchasing, equipment and layout/design; application of basic management principles in food service operations, including financial planning and personnel issues. Prerequisites: Junior classification, course in microbiology, MGMT 363 or concurrent registration.

WFSC 405. Urban Wildlife and Fisheries. (3-0). Credit 3. Urban wildlife and fisheries trains students to establish and maintain diverse, self-sustaining urban wildlife and fish populations at levels in harmony with ecological, social, and economic values of the human community and to develop optimal levels of public appreciation and use of urban wildlife and fish resources and associated habitats. Prerequisites: RENR 205, 215; WFSC 201, junior or senior classification.

2. Courses to be Withdrawn

AGSM 221. Fundamentals of Farm Building Construction.

AGSM 222. Metals and Welding Processes.

AGSM 329. Agricultural Production Machines.

AGSM 330. Wear Analysis and Repair of Farm Engines and Tractors.

AGSM 416. Measurements and Electronics in Agriculture.

FSTC 303. Quantity Food Service.

FSTC 304. Food Organization and Management.


VTPP 911. Physiology II.

VTPP 913. Physiology IV.
3. Changes in Courses

AGEN 471. Introduction to Biochemical Engineering.

Prefix
from: AGEN 471.
to: BSEN 471.

AGEN 474. Unit Operations in Food Processing.

Prefix
from: AGEN 474.
to: BSEN 474.

AGSM 300. Systems Analysis in Agriculture.

Number
from: AGSM 300.
to: AGSM 200.

HORT 203. Flowers and Plants Used in Interior Design.

Title
from: Flowers and Plants Used in Interior Design.
to: Floral Design.

Description
from: History and principles of floral design; utilization of floral art in society. Floral design techniques; line, form, texture, rhythm, proportion. Visual impact; color aesthetic appreciation of flowers and plants. Departmental fee required.
to: Principles of design illustrated with the use of floral materials; floral design elements and techniques including color, form, line, and texture; history and utilization of floral art in society. Departmental fee required.

HORT 207. Landscape Plant Materials.

Prerequisites
from: HORT 206 or approval of instructor.
to: HORT 201 or HORT 206 or BOTN 101 or approval of instructor.

HORT 325. Vegetable Crops.

Title
from: Vegetable Crops.
to: Vegetable Crop Production.
HORT 425. Landscape Maintenance and Construction.

Credit
from: (3-3). Credit 4.
to: (2-3). Credit 3.

Description
from: Principles and practices of grading, drainage and construction of landscaped areas, preparation of specifications, cost estimating, soil preparation, transplanting, operations, control of plant pests, pruning methods and arboriculture.
to: Principles and practices of grading, drainage and construction of residential and small commercial landscapes; cost and bid estimation; soil preparation; transplanting operations; control of landscape diseases and pests; maintenance of landscape areas.

Prerequisite
from: HORT 206.
to: HORT 201 or approval of instructor.

HORT 429. Greenhouse Crop Production.

Credit
from: (3-3). Credit 4.
to: (2-3). Credit 3.

Description
from: Application of basic plant sciences to principles and practices involved in commercial production of floricultural crops; hands-on greenhouse production of bulbs, cut flowers, foliage, flowering potted plants, and outdoor annuals and perennials. Departmental fee required.
to: Application of basic plant sciences to principles and practices involved in commercial production of floricultural crops; hands-on greenhouse production of bulbs, cut flowers, foliage, flowering potted plants, bedding plants, and perennials. Departmental fee required.

Prerequisite
from: HORT 428 or approval of instructor.
to: HORT 201.
HORT 432. Landscape Horticulture.

Title
from: Landscape Horticulture.
to: Horticulture Landscape Design.

Description
from: Application of the principles of horticulture to modern living in the planning and development of the home grounds; selection, use and care of ornamental plants in the landscape.
to: Application of the principles and elements of design to planning and developing both exterior residential landscape designs and interior commercial designs.

Prerequisite
from: HORT 206.
to: HORT 203 and HORT 206 or 207 or approval of the instructor.

HORT 451. Floral Design.

Title
from: Floral Design.
to: Retail Floristry.

METR 301. Atmospheric Science.

Number
from: METR 301.
to: METR 201.

Prerequisite
from: Sophomore or higher classification.
to: None.

METR 304. Atmospheric Science Lab.

Number
from: METR 304.
to: METR 204.

Description
from: Practical laboratory demonstrations and experiments, conducted mostly by the students but occasionally by the instructor, of the fundamental physical processes underlying atmospheric phenomena; must be taken concurrently with METR 301.
to: Practical laboratory experiments and exercises, conducted by students in the meteorology and computer laboratories, concerning the fundamental physical processes underlying atmospheric phenomena, and the collection, display and interpretation of meteorological information.
Prerequisite
from: Registration in METR 301.
to: Concurrent enrollment in METR 201.

**METR 306. Atmospheric Science Workshop.**

**Number**
from: METR 306.
to: METR 206.

**Description**
from: Quantitative evaluation of concepts developed in METR 301: numerical computation, meteorological charts and diagrams; analysis and evaluation of meteorological information and weather charts.
to: Quantitative evaluation of concepts developed in METR 201: numerical computation, meteorological charts and diagrams; analysis and evaluation of meteorological information and weather charts.

Prerequisite
from: MATH 151; METR 301 or registration therein.
to: MATH 151; METR 201 or registration therein.

**VTPP 910. Physiology I.**

**Credit**
from: (5-2). Credit 3.
to: (5-2). Credit 6.

**Description**
from: Introduction to physiology: cell physiology, cell signaling, cell cycle, body fluids, translocation of materials, membrane potentials, neurophysiology.
to: Introduction to physiology: cell physiology, cell signaling, cell cycle, body fluids, translocation of materials, membrane potentials, neurophysiology, autonomic nervous system, thermoregulation, cardiovascular, and muscle physiology.

**VTPP 912. Physiology III.**

**Title**
from: Physiology III.
to: Physiology II.

**Credit**
from: (5-2). Credit 3.
to: (5-2). Credit 6.
Description
from: Blood and lymph, respiration, renal physiology, and acid-base balance.
to: Blood and lymph, respiration, renal physiology, and acid-base balance, gastrointestinal physiology, metabolism, endocrinology, and reproduction.

WFSC 406. Wildlife Habitat Management.

Title
from: Wildlife Habitat Management.
to: Conservation Biology and Wildlife Habitat Management.

4. Changes in Curricula

College of Agriculture and Life Sciences
Department of Agricultural Engineering
B.S. in Agricultural Systems Management

College of Agriculture and Life Sciences
Department of Horticultural Sciences
B.S. in Horticulture
B.S. in Floriculture

College of Agriculture and Life Sciences
Department of Animal Science
B.S. in Nutritional Sciences