


BOOK REVIEWS


The purpose of the book is to provide guidelines to administrators and faculties for systemic change in undergraduate education in colleges of agriculture and natural resources to meet education needs in the 21st Century, an era of rapid change in agriculture. The book consists of two parts: 1) the framework, and 2) the focus on implementation and agenda for action in curricula and instruction change. Part I of the book represents a rework of H.O. Kunkel, I.L. Maw and C.L. Skagg's 1996 book, "Revolutionizing Higher Education in Agriculture: Framework for Change." Part II of the book reflects chapters based on edited presentations of plenary speakers and focus group discussions at two workshops held in May 1997 at Texas A&M University and April 1998 at Cornell University. Speakers and participants were senior administrators and faculty from University of Connecticut, Alabama A&M, Cornell, Texas A&M, Rutgers, and Purdue universities.

Six chapters in Part I consist of theoretical and conceptual analyses of the issues, purpose and essence of higher education in agriculture and the process of systemic change. These chapters call for systemic change in undergraduate education in agriculture, not just incremental change. Colleges of agriculture must re-establish connectivity to rapidly changing society. Colleges must adapt to provide quality with limited resources and must put students first. The guiding principles for systemic change that are identified include:

1. Define agriculture broadly as a system based on stewardship, public health, and livelihood;
2. Develop a vision for the future about what our institutions should be and whom they should serve;
3. Collaborate with other units of the university in teaching and research;
4. Make undergraduate education a high priority among a limited number of departmental priorities;
5. Create diversity through active recruitment of urban, rural, and of non-traditional students;
6. Incorporate values and the changing nature of values into the curricula;
7. Integrate the programs with contemporary issues;
8. Make teamwork and systems thinking a part of the intellectual framework of instruction;
9. Create cores of study—foundational, functional, integrative—with a liberal education;
10. Diminish redundancy and enhance connectivity in courses in the curricula;
11. Teach students how to think, not what to think;
12. Use the best and most appropriate methods;
13. Create rewards for those who “do it.”

Nine chapters in Part II focus on implementation agendas for action: 1) Responsibilities and expectations; 2) Conception and change; 3) Values; 4) Course content; 5) Faculty scholarship; 6) Classroom environment: Student participation; 7) Innovation and system thinking; 8) Strategies for implementation.

The authors note that “the most important segmenting the needed fundamental changes in higher education in agriculture and natural resources is to gain understanding of the society and the industries for graduates must be readied.”

Successful undergraduate curricula and coursework must engage reality, rethink goals, values, and recognize the high tech and global nature of agriculture. Systematically engage administration, faculty and students in order to gain an understanding of the society and the industries for graduates must be readied.

The book is a “must read” for faculty and administrators in colleges of agriculture and natural resources noting the need for flexible curricula and natural resources noting the need for flexibility which create flexible graduates with the ability to adapt to a rapidly changing industry and where graduates are needed.