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# The Science of Agriculture: A Biological Approach

*By Ray V Herren*



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THE SCIENCE OF AGRICULTURE: A BIOLOGICAL APPROACH, 4th EDITION integrates biological sciences with modern agricultural concepts. Easy-to-follow and superbly illustrated, this text will develop the reader's comprehension of Agriscience, as thorough coverage is given to plant and animal systems, soils, cell functions, genetics, genetic engineering, plant and animal reproduction, entomology, the uses of biotechnology, environmental concerns as well as new direction in agriculture and careers. The text also includes an examination of the controversy and concerns over the use of genetic engineering, genetically modified organisms, cloning, and their perceived and potential dangers to humans and the environment. An emphasis is placed on critical thinking, and practical activities to reinforce key information are featured at the end of each chapter. New directions in agriculture and agricultural career choices for the 21st century are also considered.



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## **Editorial Review**

### **Review**

Material is current and relevant; possess adequate features

Extensive use of color throughout text and the preface is useful to teachers. The text also provides a career-centered approach and real world correlation for students.

### **About the Author**

Dr. Ray V. Herren has been actively involved in agriculture for most of his life. He grew up on a diversified farm, where he played a major role in the production of livestock. He obtained a bachelor of science degree in agricultural education from Auburn University, a master's degree in agribusiness education from Alabama A & M, and a doctorate in vocational education (with an emphasis in agricultural education) from Virginia Polytechnic Institute and State University. Dr. Herren has taught at Gaylesville High School, Virginia Tech, Oregon State University, and the University of Georgia in Athens, where he recently retired as head of the Department of Agriculture Leadership, Education, and Communication. In addition to serving as national president in the Future Farmers of America (FFA) alumni organization, he has served on numerous committees from the local to international level, including a national task force to develop FFA programs for middle school and the national committee for career development events. His prolific scholarly activity includes 26 journal articles, 51 invited or refereed presentations, and 12 books and manuals. He has also earned several awards for his commitment to service, including induction into the Georgia Agricultural Teacher Hall of Fame and UGA's prestigious College of Education Outstanding Teaching Award.

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