

# AGSC - AGRICULTURAL SCIENCE (AGSC)

## AGSC 285 Directed Studies

**Credits 1 to 4. 1 to 4 Lecture Hours.** Directed individual study of selected problems in agricultural science with emphasis on collection, analysis and presentation of information. May be repeated for credit. **Prerequisite:** Approval of instructor.

## AGSC 289 Special Topics in...

**Credits 1 to 4. 1 to 4 Lecture Hours.** Special topics in an identified area of agricultural science. May be repeated for credit. **Prerequisite:** Approval of department head.

## AGSC 291 Research

**Credits 1 to 4. 1 to 4 Other Hours.** Research conducted under the direction of faculty member in agricultural science. May be repeated 2 times for credit. **Prerequisites:** Freshman or sophomore classification and approval of instructor.

## AGSC 302 Teaching School-Based Agricultural Education & Clinical Professional Experience

**Credits 4. 3 Lecture Hours. 3 Lab Hours.** Teaching School-Based Agricultural Education & Clinical Professional Experience. Foundations of school-based agricultural education (SBAE) teaching; an overview of preparing teachers for a changing world including knowledge of learners, subject matter and teaching within the context of agricultural science; clinical field experience for teaching agricultural science in public schools of Texas. **Prerequisites:** Junior or senior classification.

## AGSC 305 Management of Supervised Agricultural Experiences

**Credits 3. 3 Lecture Hours.** Overview of supervised agricultural experiences (SAEs) and content that can be used in the secondary agricultural science program; engagement in SAE programs; management practices for SAE projects including record keeping and student reports. **Prerequisite:** Junior or senior classification.

## AGSC 363 Teaching Skills in Agricultural Metal Technology

**Credits 3. 2 Lecture Hours. 2 Lab Hours.** Instructional design using science, technology, engineering and math and computer aided design (CAD); teaching methods in agricultural metal technology and fabrication; metalworking skills, electric arc welding, oxyfuel torch and plasma arc. **Prerequisite:** Junior or senior classification or approval of instructor.

## AGSC 373 Managing Safety in the Agricultural Science Program

**Credits 3. 2 Lecture Hours. 2 Lab Hours.** Safety principles and procedures, methods of teaching and motivating students in agricultural mechanics; design for those preparing to teach agricultural science in Texas public schools. **Prerequisite:** Junior or senior classification; grade of C or better in AGSC 302.

## AGSC 380 Workshop in Agricultural Science

**Credits 1 to 4. 1 to 4 Other Hours.** The study, understanding and solution of human-agricultural problems based on theory learned in the classroom, library, laboratory and fieldwork completed by individuals and teams. **Prerequisite:** Junior or senior classification.

## AGSC 383 Teaching Agricultural Mechanics

**Credits 3. 2 Lecture Hours. 3 Lab Hours.** Methods of teaching and motivating students in agricultural mechanics; designed for students preparing to teach agricultural science in Texas public schools. **Prerequisite:** Grade of C or better in AGSC 302.

## AGSC 402 Designing Instruction for Secondary Agricultural Science Programs

**Credits 3. 2 Lecture Hours. 3 Lab Hours.** Theory and practice in designing instruction for secondary agricultural science programs including effective planning and delivery methods; designed for students preparing to teach agricultural science in Texas public schools. **Prerequisite:** Grade of C or better in AGSC 302; grade of C or better or concurrent enrollment in AGSC 405, AGSC 373, AGSC 383, and INST 210.

## AGSC 405 Facilitating Complete Secondary Agricultural Science Programs

**Credits 3. 2 Lecture Hours. 3 Lab Hours.** Theory and practice in facilitating secondary agricultural science programs: includes classroom instruction, supervised experience, and youth leadership development; designed for students preparing to teach agricultural science in Texas public schools. **Prerequisite:** Grade of C or better in AGSC 302; grade of C or better or concurrent enrollment in AGSC 402, AGSC 373, AGSC 383, and INST 210.

## AGSC 425 Learner Centered Instruction in Agricultural Science

**Credits 3. 3 Lecture Hours.** Preparing curriculum materials for secondary agricultural science and adult education programs. **Prerequisites:** Grade of C or better in AGSC 402 and AGSC 405 and concurrent enrollment in AGSC 436, AGSC 481, and AGSC 484.

## AGSC 436 Professional Teaching Internship in AGSC

**Credits 6. 2 Lecture Hours. 12 Lab Hours.** Planning for and teaching secondary agricultural science in selected high schools in Texas; includes 12 weeks of professional teaching experience under the guidance of a university supervisor and a cooperating teacher in the school. **Prerequisites:** Grade of C or better in AGSC 402 and AGSC 405 and concurrent enrollment in AGSC 425, AGSC 481, and AGSC 484.

## AGSC 481 Seminar

**Credit 1. 1 Lecture Hour.** Review of current literature and research as related to program development in light of legislation and policies affecting education in agriculture. **Prerequisite:** Grade of C or better in AGSC 402 and AGSC 405.

## AGSC 484 Field Experience

**Credits 1 to 6. 1 to 6 Other Hours.** An on-the-job supervised experience program conducted in the area of the student's specialization.

**Prerequisites:** Grade of C or better in AGSC 402 and AGSC 405 and concurrent enrollment in AGSC 425, AGSC 436, and AGSC 481.

## AGSC 485 Directed Studies

**Credits 1 to 4. 1 to 4 Lecture Hours.** Directed individual study of selected problems in agricultural science with emphasis on collection, analysis and presentation of information. May be repeated for credit. **Prerequisite:** Junior or senior classification; approval of instructor.

## AGSC 489 Special Topics in...

**Credits 1 to 4. 1 to 4 Lecture Hours. 0 to 4 Lab Hours.** Special topics in an identified area of agricultural science. May be repeated for credit.

**Prerequisite:** Approval of department head.

## AGSC 491 Research

**Credits 1 to 4. 1 to 4 Other Hours.** Research conducted under the direction of faculty member in agricultural science. May be repeated 3 times for credit. Registration in multiple sections of this course are possible within a given semester provided that the per semester credit hour limit is not exceeded. **Prerequisites:** Junior or senior classification; approval of instructor.