of 128 units must be completed for the bachelor of science degree. (See *Degrees and Credentials.*)

**Agribusiness (Agricultural Mechanics Option)**

1st Year: Ag 1, AgM 15, 17, 18A, Math 29, 30, Biol 1A or B
2nd Year: AgM 25, 81, 91, Acct 1A-B, Chem 2A, Econ 1A-B, Physics 2A
3rd Year: Ag 31, 136, AgM 111, 115, 116, 159, Bus Ad 102, 110, 118A-B, 133
4th Year: Ag 112, 146, 182 or 184, AgM 151A-B, 158A, Bus Ad 151, Mkt 100, business elective (3 u.d.)

**Agricultural Mechanics**

1st Year: Ag 1, AgM 15, 17, 18A, Biol 1A or B, Math 29, 30
2nd Year: AgM 25, 18B, 81, 91, Chem 2A, Physics 2A, Econ 1A
3rd Year: Ag 136, 146, AgM 111, 115, 116, IA 74, animal or plant science electives
4th Year: Ag 151, AgM 121, 151A-B, 158A, 159

## *Courses*

*Note: Active immunization against tetanus (available through the Student Health Service) is a prerequisite for registration in any laboratory course in agriculture and for any student employment on the College Farm.*

### AGRICULTURAL MECHANICS

**AgM 15. Agricultural Mechanics (2)**

Mechanical skills in field of agriculture; selection, care and use of common farm tools; projects of wood and metal in farm appliances. (1 lecture, 3 lab hours)

**AgM 17. Farm Tractors (2)**

Operation and maintenance of farm tractors; operation of farm tractor under field conditions; service, maintenance and minor repair of gas, diesel, and butane type engines of wheel and crawler type. (1 lecture, 3 lab hours; and total of 5 hours of field operation.)

**AgM 18A-B. Agricultural Welding (2-2)**

Prerequisite or concurrently: AgM 15. (A) Arc and oxyacetylene welding as a tool of construction and repair in the farm shop; brazing; building up worn parts; burning with hand torch. (B) Hard facing by arc and gas welding; AC and DC welding and application to farm construction and repair; welding projects and farm appliances. (1 lecture, 3 lab hours)

**AgM 25. Agricultural Drafting (2)**

May be taken concurrently with AgM 15. Use of drafting instruments, lettering, dimensioning, scale drawings and working drawings of projects in agricultural mechanics; elementary plan and perspective drawings of small buildings. (1 lecture, 3 lab hours)

**AgM 81. Farm Structures and Equipment (2)**

Prerequisite: AgM 15. Construction and repair of farm structures and equipment; farm carpentry and construction principles; engineering principles, codes; farmstead layouts and basic requirements of farm structures. (1 lecture, 3 lab hours)

**AgM 91. Farm Surveying (2)**

Prerequisite: sophomore standing or permission of instructor. Use of the steel tape, level, transit and compass; field problems in chaining distances, laying out building lines, profile leveling for irrigation ditches and drains, land leveling, and measuring land areas. (1 lecture, 3 lab hours)