

courses have been included which will give the student a broad view of the field and make it easier for him to choose his special field at the end of the Sophomore year. In the Junior and Senior years special attention will be given to Rural Economics and Rural Sociology, as Rural Community is vital to success in agriculture. The purpose of these courses is to fit the student to be a leader in the rural life of his community and thus render the largest possible service to the State.

Greater opportunity for elective studies in the Junior and Senior years has been afforded, in order to give the student more latitude in arranging his course. The major of specialization are: 1. Agricultural Chemistry; 2. Agricultural Education; 3. Agricultural Engineering; 4. Agronomy; 5. Animal Husbandry; 6. Biology; 7. Dairy Husbandry; 8. Entomology; 9. Horticulture; 10. Landscape Art.

The principal changes in the Engineering Courses have been the greater opportunity for elective studies in the Junior and Senior years, and the inclusion of a course in Citizenship, to be required of all Juniors.

To meet the increasing demand for teachers of agriculture and the trades and industries, the Department of Vocational Teaching has revised and greatly strengthened the course in Agricultural Education, and has added a four-year course in Industrial Education. There will also be offered a two-year collegiate course in Industrial Education in order to meet the present great demand for teachers of this work.

The two-year non-collegiate courses next session will be limited to Agriculture, Agricultural Engineer-

MACHINE GUNS ADDED TO ARTILLERY EQUIPMENT

Browning Guns and Automatic Rifles Have Arrived.

There was a time when Artillery was quite vulnerable when attached on the flank by infantry. This is not the case now. The great war taught the officers of Uncle Sam's army many things, and one of those was the protection of the flanks of an Artillery Battery. For this purpose the Browning Machine gun and automatic rifle are used.

The Automatic Rifle, sometimes called the Light Browning is an air cooled gun weighing about 16 lbs. This gun is very light, and can be carried easily on the shoulder.

The Machine Gun, however, is a heavier gun, mounted on a tripod, which makes it more accurate. The added weight is partially due to the water cooling device, which makes it possible to fire the piece for longer periods of time without danger of overheating.

Now in order that the students in the Field Artillery R. O. T. C. at A. and M. College be trained in the minutest details, Uncle Sam has sent four machine guns and four automatic rifles here. These effective weapons are to be used in the training of the future officers of the Field Artillery Officers Reserve Corps.

SPECTACULAR FIGHT STAGED IN E. E. LABORATORY

One of the most shocking events ever staged in this section was held on Tuesday evening in the Electrical Engineering laboratory when Kid Volt met Lightning Ampere. These two veterans had been so closely associated for many decades and known throughout the electrical world for their harmonious frequency, that the entire laboratory was electrified when they came to blows. The fight was more of a synoronus affair, in that it was started by Prof. A. C. James, Bolton's E. E. Manual furnished the rules of the contest. A detail of the fight by phase follows:

Single Phase—

The circuit was closed and the fight was on. Kid Volt led off with several forads to the transformer. Lightning Ampere, fainted and produced eddy current losses, but seemed to regain power and clinched. There followed a series of magnetic fields, in which the conductor seemed to have the advantage. The phase ended with Ampere leading Volt.

Two-Phase—

Kid Volt retaliated, showing a very high potential. They clinched. The circuit broken interfered and received a bright flash across his terminals. Ampere was knocked against the winding but offered a high resistance, according to Ohm's Law. They ended the phase in a clinch.

Three-Phase—

Kid Volt was weakening and wobbled as a sine-soidal curve as he came out on the line. Oscillation occurred. Ampere led with several brushes across his field, even his armature was rotating. Connection resetted and the Volt dropped. The Ampere was declared winner as the volt was carried out in a loaded coil.

tant element.

Beginning with September, 1919, 15 units will be required for full admission to the four-year courses and 13 for conditional admission. Admission by certificates is granted only to graduates of accredited high schools who present the required number of units. Non-graduates and students from unaffiliated schools are required to pass the regular entrance examinations.

Students entering an Engineering Course without credit for Solid Geometry will be required to take that subject as an extra study during the Freshman year.

Students entering the Agricultural course without credit for high school Physics will be required to take a course in Agricultural Physics as a part of their Freshman schedule.

Admission to the two-year courses will be granted to students at least eighteen years of age, who have completed the equivalent of the ninth grade.

Beginning in 1920 the Summer Session for College students will be lengthened to twelve weeks and will include as many of the regular studies as the demand justifies.

By a recent action of the Faculty, Physical Training, three hours per week, will be required of all first-year students, in addition to their other work.

The main purpose of the revision of the curricula has been to provide for the students of A. and M. the most comprehensive instruction possible and to turn out men who are fully prepared to take the most active part in the great period of development which is just beginning in Texas.

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