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CHANGE IN SCHEDULE FOR MINING COURSE

Applied Mechanics Uniform For All Three Options Of Course III

The work in the mining engineering department has started out in the regular way this term, with the exception of the second year class which has begun on a new schedule which contains several advantageous changes from the old plan. They are to omit mineralogy this year and take it up next. Now only one advanced language, either French II or German II is required. The advantage of all this is that qualitative and quantitative analysis are both completed at the end of the third year, and physical laboratory work is begun the second term of the second year. Applied mechanics is made uniform for the three options of Course III and is finished at the end of the third year with the exception of applied mechanics laboratory which comes the fourth year, first term.

The gain of time allows forging to be taken by both options 1 and 2. A course of thirty hours in electrical engineering laboratory is given in the second term, fourth year for all options. On the whole, the course has been made smoother in every way.

Option 3, which has been the geological option and which was inaugurated at the time of Prof. Jaggars' arrival at the Institute, has now been made a more highly specialized geological option and it is expected that it will be taken only by men who have decided to work along geological lines. Option 1 still remains the general option to be taken by most of the students, and option 2, the metallurgical option, to be taken by men who expect to go more into the mechanical side of metallurgy.

The classes remain about the same as last year. Prof. Bugbee says there are at present twenty-nine men in the fourth year metallurgical laboratory, and about twenty-nine or thirty men in the third year assaying laboratory.

The course in assaying has been allotted fifteen more hours, so that lecture hour is available for the class each week. Tuesdays are the days on which the metallurgical laboratory work is performed, and Prof. Locke says that any of the students in the lower classes who desire, may call and see the machines in operation on these days. The annual gold stamp mill-runs will take place this year on Nov. 2, 9 and 16.

So far no students have registered for the Master's Degree in Course III.

Mr. G. M. Grant who has been engaged in coal mining in Montana has come to the Institute this year to make a special study of coal mine gases and explosives. Mr. E. J. Goodwin 1904, who has been here for two years as private assistant to Prof. Richards, head of the mining engineering department, has left. He departed last Thursday for North Bay, Ontario, to become superintendent of the concentrating mill of the Montreal Reduction and Smelting Co.

A "publicity bureau" has been instituted at Brown University, under the auspices of the Cammarian Club. It is the aim of the bureau during the coming college year to send Brown news by means of letters and telegrams to the various city and country newspapers and preparatory school publications.

The election of officers in the senior class at the University of Iowa is to be conducted by the Australian ballot system.

SOPHOMORES LOSE THEIR INITIAL GAME

Waltham High Wins Hard Game Heat Prevents Fast Team Work

As was expected, the Tech sophomores gave the crack Waltham High eleven a hard battle at Waltham, Saturday. The final score, which was 5-0 in favor of Waltham, does not tell the true story of the game. The 1912 team excelled their opponents in rushing the ball and made first downs many times. Waltham was unable to make first down but once on a forward pass, being forced to kick every time it got the ball, and it's score was a fluke, the direct result of a blocked punt.

Waltham kicked off to McClosky on the ten yard line. He ran it back ten yards where he was downed by Stankard. Tech plugged the line for short gains, then punted. Waltham returned the kick to Eicher, who advanced about 10 yards. After a series of kicks, Tech fumbled on their own 20 yard line and the ball was recovered by Waltham. A forward pass to Stankard brought the ball to the 10 yard line where Tech held for downs.

McClosky took the ball on the first play through Whittlesey for first down. Eicher then duplicated the trick on a quarter-back run. Failing to gain on the next two downs, Tech was forced to punt. Woodward booted the ball to Stankard who ran it back 20 yards. The Tech line was solid and the ball went to Tech on downs on their own 30 yard line. Woodward's punt was blocked by Miller who recovered the ball for Waltham on the 15 yard line. From this point Stankard scored the first touchdown. Sanderson missed the goal and the score remained 5-0.

In the first play of the second half, Robertson was kicked in the head and was forced to retire. Shuttleworth took his place. Waltham failed to gain and punted to Eicher, who was downed in his tracks by Stankard. McClosky tore off 5 yards through the line. Beale made it first down, but a penalty of 10 yards for off side playing brought the ball back. Whittlesey punted to Sanderson who was downed in his tracks by Barnes. Waltham fumbled and Tech recovered the ball on Waltham's 40 yard line. McClosky went through a hole made by Barnes for 10 yards. Immediately after, he tore off 8 yards through the opposite side of the line. Beale made it first down through center. The Waltham line stiffened and Beale tried a drop kick which was blocked.

Both teams were pretty well exhausted, owing to the excessive heat, and resorted to punting. The Tech men were especially worn out, many of the men being hardly able to stand. Busby relieved Stickney and a few minutes later Beale was knocked out and had to be carried from the field. The second half ended with all the sophomore subs in the game and the ball upon Waltham's 40 yard line.

The line up:—
Waltham Tech 1912
Cotton, Jaynes, re...le, Hopkins, Stickney, Busby,
L. Smith, rt.....lt, Whittlesey.
Booker, rg.....lg, Shuttleworth.
Guthrie, c.....e, Swanson.
Cobb, lg.....rg, Kimball
Boler, Miller, lt.....rt, Barnes.
Stankard, le.....re, Woodward.
T. Smith, qb.....qb, Eicher.
Barry, lb.....rh, Robertson.
Leary, Philson, rh.....lh, McClosky.
Sanderson, fb.....fb, Beale, Chandler.
Score—Waltham, 5; Tech 1912, 0.

SEVERAL CHANGES IN ARCHITECTURE COURSE

Technical Work For Sophomores; Artistic, For Upper Classmen

A new course scheme has been inaugurated in the department of architecture and the first and second year men are now working according to this new schedule, the upper classmen necessarily being governed by the old arrangement. The readjustment of the course, in its main aspects, has moved a large part of the more technical work from the third to the second years, thus giving more opportunity in the last two years for the artistic and historic studies.

This change in the arrangement of the studies follows out the policy of the department that architecture is essentially a fine art; that the professional equipment includes artistic and historic studies in an even larger measure than those purely scientific; that no man, no matter how thoroughly trained he may be as an engineer or as a scientist, can be an architect unless he is at base an artist.

Prof. Chandler, head of the department, has said:

"The successful architect of today must have a broad general culture, must be a master of design, and should possess a thorough knowledge of the principles underlying sound construction. He must unite, in a measure, the artist and the man of affairs, and at the same time be able to discuss scientific problems with mechanical, electrical, and sanitary engineers. A broad general culture is a fundamental necessity, because of the range of subjects on which architecture touches, and the classes of men with whom the architect has to deal."

Accordingly the subjects which are essentially cultural occupy a large part of the time assigned for work. The first two years now show a decided preponderance of the mathematical and technical studies. The first year is the same as the fall courses with the addition of courses in shades and shadow, modeling, and extra work in freehand drawing and descriptive geometry. With the second year begin the cultural and historic studies and these increase in the amount of time assigned until the fourth year very little of technical value is studied.

The change made this year includes the transfer of perspective, building stones, and history of ornament, formerly third year subjects, and water color, a third and fourth year study, to the second year. Architectural history will be given in the second and third years as heretofore, but European civilization and art will begin in the third year, and in this and the fourth years will come the ground now covered in the fourth and graduate years.

The history of European civilization and art is thus given due emphasis in recognition of the necessity to the architect of the broadest aesthetic and historical training, as necessary as architectural history itself, to grasp fully the essential spirit of classical, gothic, and renaissance art. The course treats not only of the art of each period, but gives the racial, economic, religious, and political elements in the rise and growth of European civilization. Upon the background thus gained, the art of each successive part is studied and general aesthetic principles are discussed.

The worth of freehand drawing still has the same importance which the department has always placed on it—that

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JAMES FRANCIS AGAIN TO COACH TECH SHOW

Has Signed Contract With 1910 Management To Tackle Next Book

Tech Show 1910 management is to be congratulated on again securing Mr. James R. Francis as coach. He has just signed the contract and will formally take charge as soon as cast and chorus are called out in February.

Mr. Francis has been in the theatrical business all his life, having traveled the country with many well known actors, Richard Carle among them. He has also staged the Tech Show for the past five years, and is well known and liked by all who have worked under him.

Before Mr. Francis took charge, the shows were more on the order of minstrels, and were held on a small scale; but he has enlarged the general plan and has done a great deal to make the Tech Show what it is today, the best college show in the country.

Mr. Francis expects to make this year's production the best ever, and hopes that the book of the play will make this possible. As in former years, Mr. Francis will have practically complete charge of choosing the book of the play in the competition. All who are writing plays should carefully bear in mind that the competition closes on Nov. 1.

Considerable business has already been transacted and plans which give promise of breaking all previous records are well under way.

With a good coach, efficient management, bright prospects for an excellent book of the play and an enthusiastic student body to support it, Tech Show 1910 promises to keep up and even exceed the high standard set by its predecessors.

TENNIS TOURNAMENT SCHEDULE COMPLETED

The entries for the fall tennis tournament closed Friday night with thirty entries in the singles and six teams in the doubles. The preliminary rounds must be played by Wednesday, Oct. 13, or they will be defaulted. Each man should look up his opponent immediately, if he has not already done so. As is usual, each man is required to bring three new balls, and these are to be used in the match. The winner takes the new, and the loser the old balls.

The drawings for the preliminary round resulted as follows: D. Stewart 1911 vs G. M. Keith 1912, the winner to play D. V. Williamson 1910, J. B. Little 1912 vs N. McL. Sage 1912, A. R. Atwater 1912 vs T. B. Parker 1911, K. Dey 1913 vs J. B. Schmiedeke 1913, A. J. Freedman 1912 vs A. B. Harkness 1911, R. B. Stone 1912 vs M. K. Sweet 1910, R. T. Haslam 1911 vs F. M. Covill 1911, R. E. Runels 1911 vs S. H. Lawton 1911, R. W. Perkins 1910 vs J. O. Greenan 1911, L. O. Sweet 1913 vs O. C. F. Meisel 1910, C. P. Kerr 1911 vs P. B. Rankin 1913, C. B. Rowley 1912 vs H. H. Whitted 1910, C. Greenan 1913 vs P. M. Wentworth 1910, F. Russel 1911 vs B. Hill 1911, the winner to play I. J. Flamburg 1913; in doubles, T. B. Parker 1911 and A. B. Harkness 1911 vs P. B. Rankin 1913 and K. Dey 1913, the winner to play P. M. Wentworth 1910 and C. P. Kerr 1911, M. K. Sweet 1910 and L. O. Sweet 1913 vs F. M. Covill 1911 and partner, the winners to play Pearce 1913 and F. Russel 1911.