SPECIAL WINTER COURSES
AT THE
Michigan Agricultural College.
Winter of 1898-1899.

There are many young men unable to give the time required for a full college course, who have the opportunity to gain further information along lines of practical farming and fruit growing. These special courses afford precisely the desired opportunity. The following are the courses offered for the coming winter:

Course 1.—Cheese Making. Four Week's Course.
This course began Nov. 28 with good attendance.

The following courses are each six weeks in length, and will begin Monday, January 24:

Course 2.—Cereal Management and Butter Making.
Course 3.—Home Dairying.
Course 4.—Live Stock Raising.
Course 5.—Fruit Culture.
Course 6.—Floriculture and Winter Vegetable Growing.

The entire expense for one of these courses, aside from railroad fare, will be less than $35.

Sixty-five young men took advantage of these courses last winter. We advise you to apply early, as room is limited.

We have illustrated circulars giving full details in regard to the courses. If you wish to obtain these circulars or any other advertising material that we may issue in connection with the special courses, write immediately to the President.

J. L. Snyder
Agricultural College, Mich.

The Cheese Course in Full Operation.
The cheese course began last Tuesday, with 12 people in attendance. Prof. Aderhold arrived the previous Saturday. The milk supply is received from patrons of the Condensed Milk Co., and is delivered at the College between 10 and 11 each morning so that the time of the students is taken up prior to that hour by work in chemistry and bacteriology. Before the close of the term experiments will be carried on by the class in methods of treating milk that tends to produce gassy curd, on the use of starters and on other phases of the work.

Mechanical Department Notes.
The department is engaged in building a large switcher for Mr. Westcott who is preparing plates for the elementary machine design class next term.

The seniors are contemplating a visit to the School for the Blind next Friday, to look over the engine and boilers at that place.

The large sophomore class has made it necessary to run two sections of the foundry work for the remainder of the term.

The department has not been able to make arrangements for the proposed trip to Chicago, owing to the fact that reduced rates could not be secured from the state.

The blacksmith shop has an excellent brick floor. The brick used is of the same kind as that which has recently been used for paving the streets of Lansing.

Any person desiring one of those useful engineering reference cards may procure the same by sending this name and address to the department.

Prof. Aderhold, instructor in cheese making, is stopping with L. F. Jennison.

Mr. Jennison, clerk of the mechanical department and Messrs. Mitchell of the design of a time record book, in which may be seen at a glance the standing of any student in the shops. It will undoubtedly be a convenient aid in the work here.

Farm Notes.
Three members of the Department are away at Institutes this week. Prof. Mumford is in the Upper Peninsula, Prof. Towner in the western part of the State, and Prof. Smith, after attending the annual meeting of the State Horticultural Society at Ann Arbor to-day, goes to St. Clair county.

Much of the corn cut into the hay this fall at the grade dairy barn was nipped by a frost before it was cut. A hose was connected with a hydrant and water was thrown on the stacks as it was elevated into the silo. This silage is now being fed. Its condition is most excellent. It is not quite as solid in the silo as silage from greener corn would be but its odor and palatability leave little to be desired.

The Agricultural freshmen to the number of 83 take lectures in soils this week. Prof. Mumford is in the field with them.

The quantity of sugar beets harvested from the six acres grown on the College farm was too large to be stored in the root cellar of the barn. The surplus was put in a long pile in No. 3. This pile was covered with straw through the first cold spell" with no dirt over it. The straw, course, who are glad to have the opportunity to gain further information along lines of practical farming and fruit growing. These special courses afford precisely the desired opportunity. The following are the courses offered for the coming winter:

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THE M. A. C. RECORD.

PUBLISHED WEEKLY BY THE
MICHIGAN AGRICULTURE COLLEGE.
EDITED BY THE FACULTY.
ARRESTED BY THE STUDENTS.

SUBSCRIPTIONS REGULAR: 1850.00 PER YEAR.
ADDITIONAL: 15.00 PER QUARTER.
SUBSCRIPTIONS SHOULD BE SENT TO THE SECRETARY.

THE M. A. C. RECORD. DECEMBER 6, 1898.

THE GAS ENGINE.
WILLIAM BULL, UNION LITERARY SOCIETY.

The gas engine is at the present time receiving a great deal of attention from engineers and power users. Its first experiments were made several years ago and experiments were made, using gunpowder as the explosive, but the work did not seem to go on very well and no satisfactory results were obtained. It is only recently that the gas engine has been put to any great purpose. Its field of usefulness is rapidly increasing. A short time since it was making, using gunpowder as the explosive, but the work did not seem to go on very well and no satisfactory results were obtained. It is only recently that the gas engine has been put to any great purpose. Its field of usefulness is rapidly increasing.

Official Directory.

V. C. A. — Regular meetings Sunday evening at 7:00 and Thursday evening at 4:30.
W. C. A. — Regular meetings at 3:30 p.m. every Saturday.
SCIENCE SOCIETY — Meetings every Saturday evening at 7:30.
COLUMBIA LITERARY SOCIETY — Meetings every Wednesday evening at 8:00.
NATURAL HISTORY SOCIETY — Meetings every Thursday evening at 8:00.
MUSICAL CLUB — Meetings every Monday evening at 8:00.
SHINGLEDALE — Meetings every Wednesday evening at 7:30.
UNIVERSAL SCIENCE ASSOCIATION — Meetings every Saturday evening at 7:30.
KRENTEL'S ACADEMY — Meetings every Friday evening at 7:30.
PHI DELTA THETA FRATERNITY — Meetings every Thursday evening at 8:00.
BETTY B. MILLER'S SOCIETY — Meetings every Tuesday evening at 8:00.

Meeting of the State Board of Agriculture, November 29, 1898.

Present, President Wells, Messrs. Monroe, Garfield, Moore, Bird, Marston, President Snyder and Secretary Butterfield.

Minutes of last meeting read and approved.

President Snyder reported progress in matter of well, also in regard to change of furnace in Prof. Ed. Rugg's house.

President Snyder presented matter of alumni catalog.

Request was received for an offer from the College to rent its facilities to two students who might come to the institution from Cuba.

Dr. Howard Edwards, President of the College, and the President of the Board.

Dr. Marshall for apparatus for Biological Department was referred to Committee on Experiment Station.

The matter of steam heat for farm house was referred to Committee on Buildings and Property.

Request of C. S. Brooks and E. J. Rugg for electric lights was referred to same committee.

The resignation of M. W. Fulton, Professor of Agriculture, was received and accepted.

A communication was received from Dr. Howard Edwards, President of the State Poultry Association, asking the Board to authorize to exhibit poultry at the Grand National Fair. The matter was referred to Committee on Experiment Station.

President Snyder reported matter of increase of salary for G. H. True. It was resolved, That the Committee on Apportionment be requested to consider the matter of purchase of 10 microscopes for Botanical Department.

President Snyder was authorized to arrange for a series of lectures to be given by Prof. R. G. Mugnaini, of Chicago University.

The matter of employment of additional help at Boiler House was referred to Committee on Employment.

It was resolved that a former resolution of the Board requiring that all mechanical instruments be kept in the armory, be rescinded.

President Snyder was requested to call for an apportionment of funds for the next six months.

A communication was received from Prof. Barrows relating to打仗 welche.

A letter was read from Otto Huzenbutler of Detroit, relating to plans for Women's Building Association.

A request from the Secretary of State Dairy Association for assistance of speakers at the annual meeting of the Board Feb. 1, and was referred to the Committee on Institutes.

A recess was taken to Wednesday morning.

Wednesday, Nov. 30, 1898, 8 o'clock A. M.

Same members present.

The committee on Buildings and Property reported that in accordance with resolutions of the Board passed April 28, 1898, they are ready to proceed with the work of the winter.

The plans were submitted without name or distinguishing mark and after being opened were referred to Committee on Institutes, and the President of the College to report on choice of plans to the Board at its next meeting.

Committee on Buildings and Property reported on steam heat of the farm house, to put in steam with a deduction of $50 by an annual salary of farmer, giving him the choice.

The same Committee reported on electric lights for C. S. Brooks and E. J. Rugg.

The President was authorized in his discretion to publish report, letters and papers presented by Beta Chapter of Phi Delta Theta Fraternity to the Grand Chapter, in defense of the College, and on the proposal before the Grand Chapter to annul the charter of Beta Chapter, M. A. C.

President Snyder reported apportionment of funds for next six months as follows:

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The Director of the Station was authorized to exhibit poultry at the State Poultry Association show at Detroit.

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Report was adopted.

A recess was taken to 1:30 p. m. When the Board met, same members present.

The Committee on Employees recommended that the annual salary of G. H. True be increased to $800 per annum, beginning with December 1, 1898. Adopted.

The Committee on Employees recommended that the sum of $800 be paid to the amount of $800 per annum, beginning with December 1, 1898. Adopted.

The committee to report on choice of plans for Women's Building in conjunction with prizes, reported as follows:

The choice of the committee for first prize is the plan marked num-
Of Special Interest to All Friends of the College.

I. We desire to announce to all who have aided us in advertising the special courses at the Agricultural College this winter, and especially to those who are thinking at all about coming here to take one of these courses, that many applications for entrance have already been received, and this list is being added to at the rate of three or four a day.

II. If you have decided to enter one of these courses, or know of a young man who has so decided, it would be advisable to make application for enrollment immediately.

III. If you are still undecided about entering this year in the special courses, we trust you will take time to read over the letters published below. These letters are from prominent farmers in Michigan—men who understand the value of education on the farm, and who know of the practical nature of the courses which the College offers. Surely the advice of these men is worth weighing. Do not hesitate longer. You will never regret the step if you decide to take one of these courses this coming winter. Do not delay, but send in your name at once.

IV. There are quite a good many of our friends, whom this issue of the Record will reach, who have been supplied with postal cards requesting them to send us the names and addresses of young men who might be induced to take one of these courses. Quite a few of those who had the cards have not yet responded. May we ask you to do so at once? It will help us, and we promise that more than all, it will be a favor to the young men whose names you may send.

Presenting the special winter courses of great value.

There are many young men in the state who have engaged, or soon will engage, in the lines of agriculture and horticulture covered by these courses. Where circumstances permit, the investment of time and money that can be made for such men to avail themselves of the instruction given at the College is well worthwhile.

Jason Woodman.

I am more than pleased to know that at the Agricultural College you have (in winter) special short courses in practical agriculture and its various branches, and the sciences appertaining thereto; thus giving to farmers' boys who intend to take up their profession, the solid foundation for future development of brain sinew, at the least possible expense and loss of time.

Manchester.

L. D. Watkins.

In regard to the special courses at the College, will you tell me how I can honestly endorse them.

If the farmers and business men of the state who desire to give their children a practical education, could visit the College and see the facilities for educating them, in the many useful arts and sciences, you certainly would have no trouble in keeping the College full during the whole school year. No young man or woman with means of their own can afford to miss these short courses.

I hope, that all our butter and cheese makers and there is always a good demand in either line for those who are up to date. Here is a place in the state where they can qualify themselves so well for these positions as by taking a short course at the College.

It would give me pleasure to recommend the graduates from these courses who desire these positions.

S. J. Wilson.

Flint.

Students to obtain most valuable information at small cost of time and money. From many years of experience in the farm and horticulture among farmers and fruitgrowers of this and other states, I am fully convinced that one of the greatest needs of this class of this class has been and is at the present time a better knowledge of the crops and their business such as the short course at your College undertakes to furnish.

D. W. Wiley.

Douglas.

I have a very high opinion of your College as a school of applied science.

Especially do I value efforts of the faculty to reach out and get in more direct relations to the agricultural interests by institutes held about the state, and by special courses of study at the College.

Colleges in touch with the improved methods, with first class teachers and apparatus, cannot fail to improve and brighten any ambitious young farmer who has the time and money to devote to it. It will be money well invested for profit and pleasure, and will, I trust, still further extend the widespread influence of the Michigan Agricultural College.

South Haven.

A. S. Dyceman.

The announcement of the special winter courses offered by the Agricultural College for the coming winter has just been received. Upon it I have frequent calls for butter and cheese. How I wish to say I am favorably impressed with the grand opportunity it affords to this class of men who understand the value of education on the farm, and who is always a necessity for those who wish to make agriculture their profession. The cost is very light, and six weeks at the college will repay them many times for their time and money.

E. A. Choman.

Grass Lake.

My acquaintance with the instructors in the special courses, a knowledge of their abilities, and the equipment of the College, gives me confidence in the value of the practical work, leads me heartily to commend the opportunity to any one who is interested in the different branches of study pursued.

Many of the students in the short courses have had one or more years of experience in the College, and can the students of those topics which interest you do not have the advantage of a College course.

I wish to commend the College management upon the vigorous efforts put forth to make the special courses as taught at the Agricultural College, with these added special courses, affords ample facilities for the very best agricultural and mechanical training, and in my judgment the added value of the short winter courses has done much to bring the College into more vital touch with the farming interests of the state.

John K. Campbell.

Ypsilanti.

It gives me pleasure to state that the short courses in agriculture are being continued at the Agricultural College again this winter. A young man or woman who has not the time or money to take a full course in agriculture may take advantage of these short courses. They are worth the consideration of all young men and women who wish to make agriculture their profession. The cost is very light, and six weeks at the college will repay them many times for their time and money.

E. A. Havem.

Bloomington.

From my observation, I consider the short winter courses adopted at the Agricultural College, a great boon to the young men of the state. For this reason, that some who take the full course, take up some other profession; while the young man who attends the special course gets just enough agriculture, horticulture, or livestock, under such conditions as are found at the Michigan Agricultural College, will add to his stock of knowledge and experience to the next winter’s work that cannot be secured by any course of home study, however earnestly the course is especially valuable.

A few weeks’ study of dairy work at the Agricultural College will enable him to understand the principles of milk and its products, the science and sense of breeding and feeding, the various lines of horticulture and floriculture, under such conditions as are found at the Michigan Agricultural College, will add to his stock of knowledge and experience to the next winter’s work that cannot be secured by any course of home study, however earnestly the course is especially valuable.

E. A. Havem.

Grass Lake.
In this progressive age the farmer who remains passive or indifferent to advanced methods of agriculture, sunny that the far is out of the day. Winter of 1898 was the greatest value, especially to farmers and women who understand what it means to be up-to-date in the use of the fundamental principles of agriculture. The most important questions that demand a solution are: Can one make the best use of the limited funds at his disposal? Are the new methods practical? Are they co-ordinated with each other, give and receive practical ideas in their chosen fields of labor? Do we understand what we are engaged in? Can we be certain that it offers to the young men and women who are soon to manage the farm and the farm yard rounds of the agricultural courses that are to be given at the agricultural college?

Agriculture has offered opportunity for any young man or young woman that society needs for well qualified men and women, just the kind that society needs. There never has been a greater demand for well qualified men and women than there is today. Every boy and girl should have head, heart and hands educated. The very best place to do this is at the Michigan Agricultural College.

In the rapid march of progress the farmer of the future must necessarily conduct his business on more scientific principles than in the past. There is a great responsibility on the part of the people to educate the young. The true success of this great republic depends largely upon the education of the American farmer. An educational line will be an investment that will repay in large dividends which can be neither lost or stolen. There never has been a greater demand for men and women than there is today. Every boy and girl should have head, heart and hands educated. The very best place to do this is at the Michigan Agricultural College.

Each year this institution is sending out many men and women ready to win the world. Of course, there are still difficulties, but those difficulties are being met. The graduates are all around, entering business, going ahead, good citizens. At the Agricultural College manual training is realized, and the department consisting of six courses is Klonky to the young man or young woman who can attend. The time and money spent will be a rich investment for future use. The course for the benefit of busy men with limited means, to get on the right direction, your success is assured. The writer could be granted the College where you would have been without these courses, but they will make a difference in the use of the fundamental principles of agriculture in its widest sense. The inspiration and fundamental information that will be imparted will be followed by alertness for and inquiry, and if you can supplement this with the reading of agricultural literature your work will be greatly expanded. I am certain that the results from these short courses will be of great utility to the farmer who will follow farming as a business method of agriculture, and the virgin soil has been robbed of its fertility. The farmer is confronted with a new condition of life in farming. In the barn and in the field, in the dairy and in the nursery, everything that changes place in the last forty years.

To answer your favor concerning winter courses at the Agricultural College would say that they are ad­ vanced methods of agriculture, and students each winter. The advantages of these short courses given by our agricultural college, to those who cannot take a full course cannot be estimated from a dollar and cents standpoint. It gives you the right start in the right direction, and when once started in the right direction, your success is assured. The writer could be granted the College where you would have been without these courses, but they will make a difference in the use of the fundamental principles of agriculture in its widest sense. The inspiration and fundamental information that will be imparted will be followed by alertness for and inquiry, and if you can supplement this with the reading of agricultural literature your work will be greatly expanded. I am certain that the results from these short courses will be of great utility to the farmer who will follow farming as a business method of agriculture, and the virgin soil has been robbed of its fertility. The farmer is confronted with a new condition of life in farming. In the barn and in the field, in the dairy and in the nursery, everything that changes place in the last forty years.

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barg; for second price, that marked number 4; for third price, that marked number 6.

On opening the envelopes, numbered by Supt. Hammond to correspond with the several plans, number 5 was found to have been submitted by Pratt and Koepp of Portland, number 4 by Bash, Bow- man & Rush of Grand Rapids and number 6 by E. A. Bowd of Lansing.

It was Resolved, that the President be authorized to employ a night watchman.

It was moved that the President of the Board, the President of the College and the Secretary, be requested to prepare and present to the Board at the next meeting, estimates covering items and buildings needed by the College, for which appropriation by the legislature is necessary.

The Committee on Experimental Station reported an appropriation for material for bacteriological work, that the sum of $500 be allowed from Experimental Station Fund.

The same committee reported favorably on the recommendation of the Director and Horticulturist of the station for the appointment of E. H. Foltz as Superintendent of South Haven fruit station, to begin March 1, 1899, at a salary of $600, for ten months' work per annum.

The report was approved.

Charles W. Loomis, having completed his College work, was granted his degree, Bachelor of Science.

Piano Recital.—The Program.

The young ladies of the Music Department will give a public recital in College Hall Friday evening, December 9, beginning promptly at eight o'clock. They will be as- sided by the M. A. C. Chorus.

The program follows:

1. "Silent Night." Miss Monroe
2. "A Mighty Fortress Is Our God." Dr. Lee
3. "Carpet Department." Alsdorf & Son... HERRICK BROTHERS Fine GROCERIES and MEATS Everything guaranteed first-class. 205 N. Washington Ave. Open House Stock

The M. A. C. Special Hat is now on sale; much nicer hat than last season; better material and workmanship—price the remains the same, Fifty Cents.

If you want up-to-date neckwear I would have great pleasure in showing you the most complete line of natty ties in Lansing.

Sweaters, Golf Hose, Caps, Hats and Shirts are lines in which I lead.

Students' patronage respect­ fully solicited.

Elgin Mifflin, The Outfitter.

R. B. Shank & Co., Leading Grocers and Confectioners.

We make a special effort to sell only the best KID GLOVES.

The Monteford

Our $1.00 Ladies’ Kid Glove we fit and guarantee, in black and new fall modes, 2 clasp; or for

The Zettic $1.25 Glove.
The LeClarion $1.50 Glove.

We have a large line of Lined Mittens and Gloves

- At 50c pair.

- At $1.00 pair.

- Ladles’ Heavy Gauntlet Gloves

Our Underwear Department Offers exceptional values in Ladies’ Winter Underwear.

Ladies’ Muslin Underwear.

Carpet Department Offers 100 30x50 Moquette Rugs For $1.75 Each.

Simons Dry Goods Co.

Chas. A. Pielaa, DISPLAY OF DIAMONDS, WATCHES, JEWELRY, COCKS, SILVERWARE, ART GOODS.

Herricks, 251 Washington Ave. S., LANSING, MICH.


R. B. Shank & Co., Leading Grocers and Confectioners.
News from Graduates and Students.

S. W. Tracy '96 is interested in mining operations at Alturas, Colorado.

H. W. Tracy '94 is traveling for the Griffith and Turner Seed Company, of Baltimore, Md.

G. N. Eastman '96 as been ill for some time with an abscess in one ear, but is now back at work.

Civil Service Examination.

The United States civil service commission announces that examinations will be held on December 1, 1898, commencing at 9:00 a.m., at any city in the United States where it has a branch office, for the position of assistant in entomology, office of experiment stations, department of agriculture.

The examination will be upon the following subjects: Biology and entomology, French, or German (translation of scientific literature) editing and abstracting, essay writing, and choice between additional modern languages and veterinary science.

This examination is open to all citizens of the United States who comply with the requirements, without regard to race or to political or religious affiliations. Persons desiring to enter this examination should at once apply to the President, vice commission, Washington, D. C. Application forms (forms 304 and 375) which should be properly executed and promptly forwarded to the commission, will be held.

New Constitution for the Natural History Society.

At the beginning of the present year the Organon, the Natural History Society started a new organization, for the Michigan Agricultural College.

ARTICLE III—MEMBERSHIP.

Section 1—Any person actually connected with the Michigan Agricultural College may become a member of this society by signing the Constitution and paying an admission fee of ten cents (10c).

Section 2—Any member, upon severing his connection with the College, by graduation, honorable dismissal or withdrawal, shall become an Honorary Member, entitled to all the privileges of membership.

Section 3—Ten members shall constitute a quorum for business.

ARTICLE IV—MEETINGS.

Section 1—Regular meetings shall be held each term at such intervals as the Board of Directors may deem advisable.

Section 2—Special meetings may be called at any time by the Board of Directors, or by the President on request of not less than one fourth of the resident members; but notice of such meeting must be posted at least one day previously.

Employes of M. A. C.

Desiring to build should not purchase their material before consulting with

Hiram Rikerd, Lansing, Mich.

Lumber of all kinds. Interior Finishing a specialty.

PRICES RIGHT.

Office and Factory, Mill St. Both Phones.

Furniture Headquarters.

Cots at $1.25, $1.50, $2.00 and $2.50

Wire Springs at $1.50 and $2.00

Mattresses from $2.00 up

Tables, Rockers, Bureaus, Iron Beds.

All goods delivered free to College.

M. J. & B. M. Buck.

DIRECTORY

A LAUNDRY BUSINESS AND PROFESSIONAL MEN.

THE M. A. C. RECORD

DECEMBER 6, 1898

FURNITURE DEALERS.

M. R. & B. M. BUCK—Furniture, Cnr. Washington Avenue and Inner Street. See ad.


BACK AND BAGGAGE LINES.

M. A. C. STEREOSCOPE—Mrs. Young, 215 Provost, the Rack and Livery Stables, Holstein, Michigan. See ad.

HARDWARE, STOVES AND TINWARE.

JACOB STAIR & SONS—Wholesale and Retail Hardware and House Furnishings. 211 and 213 Washington Avenue North.

NORTON'S HARDWARE—General Hardware, Furnishings, Groceries, Gentlemen, City, etc. 204 and 375 Washington Avenue North.

RUBES.


INSURANCE.


JEWELERS.

B. P. RICHMOND—Watchmaker, Jeweler and Engraver. 204 Washington Avenue North.

LAUNDRIES.

THE VAN GORDER LAUNDRY, 312, Hibbitt, Agt, Wells Hall, Room 20, General Merchandise Agents, Rooms 45, Williams' Hall, Lansing. See ad.

LUMBER DEALERS.

H. W. RIKERD—Lumber Dealer. Mill Street. See ad.

MERCHANT TAILORS.

WOODBURY & NAVAGE—Pattens, Student trade solicited. Opposite Hotel Downey, North.

JOHN HERRMANN, 113 Washington Avenue North.

MILLINERY.

MRS. L. S. RIDGON, Holstein Block, where you can find the best styles in simple as well as elaborate Hats at lowest prices.

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JOHN HAGADORN, M. D.—Office hours, 11 to 12 A.M., 2 to 4 P.M. Sun.

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A. R. DAVIS, 113 Washington Avenue North. Office of Dr. H. R. Davis and Dr. B. H. Davis.

DRUGGISTS.

C. F. RICKETTS, Corner Drug Store, 125 Washington Avenue South, Lansing.

DENTISTS.

R. W. MORSE, D. S. N.—Hollister Block, Room 277.

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