

QUARTERLY CALENDAR

OF

The University of Chicago

FOUNDED BY JOHN D. ROCKEFELLER

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CALENDAR FOR 1894.

Jan. 1.	Monday	FIRST TERM of Winter Quarter begins. Dedicatory Exercises of Kent Chemical Laboratory.	Mar. 26-Apr. 1.		Quarterly Recess.
			April 1.	Sunday	FIRST TERM of Spring Quarter begins.
Jan. 2.	Tuesday	WINTER MEETING of the University Convocation. Matriculation of incoming students.	April 2.	Monday	SPRING MEETING of the University Convocation. Matriculation of incoming students.
					LAST DAY for receiving applications for fellowships.
Jan. 7.	Sunday	THE CONVOCATION SERMON.			
Feb. 1.	Thursday	LAST DAY for handing in Theses for the Master's Degree, to be conferred at the April Convocation.	April 28.	Saturday	SCHOOL AND COLLEGE CONFERENCE.
			May 1.		ANNUAL ASSIGNMENT of <i>Fellowships</i> .
Feb. 9.	Friday	WINTER MEETING of the University Union.	May 11.	Friday	SPRING MEETING of the University Union.
Feb. 11.	Sunday	FIRST TERM of Winter Quarter ends.	May 12.	Saturday	FIRST TERM of Spring Quarter ends.
Feb. 12.	Monday	Lincoln's birthday; a holiday. SECOND TERM of Winter Quarter begins.	May 13.	Sunday	SECOND TERM of Spring Quarter begins.
Feb. 22.	Thursday	Washington's birthday; a holiday.	May 15.		LAST DAY for receiving papers in competition for the <i>Bastin Prize</i> .
Mar. 8.	Thursday	REGISTRATION of students for courses of the Spring Quarter.	May 30.	Wednesday	Memorial day; a holiday.
			June 20-22	Wednesday	SUMMER EXAMINATIONS for admission to the Academic Colleges.
Mar. 21-23.	Wednesday	SPRING EXAMINATIONS for admission to the Academic Colleges.		Thursday	
	Thursday			Friday	
	Friday		June 23.	Saturday	SECOND TERM of Spring Quarter ends.
Mar. 23.	Friday	LAST DAY for handing in Theses for the Doctorate and the Degree of Bachelor of Divinity to be conferred at the July Convocation.	July 1.	Sunday	FIRST TERM of Summer Quarter begins.
			July 2.	Monday	SUMMER MEETING of the University Convocation. Matriculation of incoming students.
Mar. 25.	Sunday	SECOND TERM of Winter Quarter ends.			

The University is situated on the Midway Plaisance, between Ellis and Lexington Avenues, and can be reached by the Cottage Grove cable cars (from Wabash Avenue), or by the Illinois Central Railroad, to South Park station.

There is a Western Union telegraph office at the University.

The Telephone number of the University is Oakland-300.

It will be sufficient to address any correspondence relating to the work of the University to

THE UNIVERSITY OF CHICAGO,
CHICAGO, ILL.

PART I—RECORDS.

The University in General.

THE PROCEEDINGS OF THE FIFTH UNIVERSITY CONVOCATION, JANUARY 2, 1894.

THE CONVOCATION SERMON: JESUS CHRIST IN HIS RELATION TO MAN, JANUARY 7, 1894.

The Convocation Sermon was preached by Reverend Lathan A. Crandall, D.D., from John xvii. 22.*

THE CONVOCATION ADDRESS: THE CHEMICAL LABORATORY.

BY IRA REMSEN, M.D., PH.D., LL.D., Professor of Chemistry in the Johns Hopkins University.†

LADIES AND GENTLEMEN:

Last evening the Kent Chemical Laboratory was dedicated with appropriate exercises. The beautiful building was thrown open to inspection, and many passed through its rooms expressing admiration. Its plans were explained and a general account was given of the uses to which it is to be put. Honor, "as is most justly due," was paid to the generous donor, whose name from this day forth will be intimately associated with progress in Chemistry in this country. The exercises of yesterday have led by an easy step to those of to-day, and a chemist is called upon to give the Convocation address. What theme more natural to him, or more appropriate, than "The Chemical Laboratory?" It is to this theme that I ask your attention. My purpose is to treat the chemical laboratory, not from the material point of view, but in its broader aspects, as far as I may find this possible. I shall attempt to answer briefly three questions, and these are:

1. When and how did chemical laboratories come to be established in universities?
2. What part have chemical laboratories played in the advancement of knowledge?
3. What are the legitimate uses of the chemical laboratory of a university at the present time in this country?

* At the Hyde Park Presbyterian Church, 7:30 P.M.

† Delivered at Central Music Hall, January 2, 1894, it being the Formal Address in connection with the Opening of the Kent Chemical Laboratory, the proceedings of which are recorded on p. 20.

The first laboratory ever erected for the teaching of chemistry,—indeed the first laboratory for teaching any branch, was that of the University of Giessen, Germany, which owed its existence to the enthusiasm of Liebig. The story is an interesting one, and especially instructive on an occasion such as this. Liebig was born in the year 1803. According to his own account he had a hard time of it in the schools. He says: "My position at school was very deplorable; I had no ear-memory and retained nothing or very little of what is learned through this sense. I found myself in the most uncomfortable position in which a boy could possibly be; languages and everything that is acquired by their means, that gains praise and honor in the school, were out of my reach; and when the venerable rector of the gymnasium, on one occasion of his examination of my class, came to me and made a most cutting remonstrance with me for my want of diligence,—how I was the plague of my teacher and the sorrow of my parents, and what did I think, was to become of me,—and I answered him that I would be a chemist, the whole school and the good old man himself broke into an uncontrollable fit of laughter, for no one at that time had any idea that chemistry was a thing that could be studied."

This was truly an unpropitious beginning, yet this butt of his school was soon contributing more to the

development of Chemistry than any one ever had before or than any one ever has since. Filled with the determination to study chemical things and phenomena, he left the school where he had been such a failure, and entered an apothecary shop, but at the end of ten months the proprietor was so tired of him that he sent him back to his father. As Liebig said, he wanted to be a chemist, not a druggist. He must have been about fifteen years of age when, in spite of his inadequate preparation in languages, he was received as a student in the University of Bonn, and from here a little later he went to Erlangen. But he appears not to have been much better satisfied at the university than he was in the apothecary shop. He speaks almost with contempt of the teachers under whom he studied. "It was then a very wretched time for chemistry in Germany," he says. "At most of the universities there was no special chair of chemistry; it was generally handed over to the professor of medicine, who taught it, as much as he knew of it, and that was little enough, along with the branches of toxicology, pharmacology, *materia medica*, practical medicine, and pharmacy." Referring to the equipment of the universities for the teaching of chemistry he says: "I remember, at a much later period, Professor Wurzer, who had the chair of chemistry at Marburg, showing me a wooden table-drawer, which had the property of producing quicksilver every three months. He possessed an apparatus which mainly consisted of a long clay pipe-stem, with which he converted oxygen into nitrogen by making the porous pipe-stem red hot in charcoal, and passing oxygen through it. Chemical laboratories, in which instruction in chemical analysis was imparted, existed nowhere at that time. What passed by that name were more like kitchens fitted with all sorts of furnaces and utensils for the carrying out of metallurgical or pharmaceutical processes. No one really understood how to teach it."

After a comparatively short sojourn in Erlangen, Liebig returned home fully persuaded that he could not attain his ends in Germany. Some of the young men of that time had gone to Stockholm to study chemistry, attracted thither by the fame of the great Berzelius. But Liebig decided in favor of Paris. He was then seventeen and a half years old and, as we have seen, he could not have been well prepared in chemistry, yet in a short time after his arrival he made such an impression on Alexander von Humboldt that he was admitted to the laboratory of one of the most brilliant chemists of the day—Gay Lussac. He had previously begun an investigation on certain fulminating compounds to which his attention was first

directed in a curious way at his home in Darmstadt.

Let me again use his own words: "In the market at Darmstadt I watched how a peripatetic dealer in odds and ends made fulminating silver for his peacrackers. I observed the red vapors which were formed when he dissolved his silver, and that he added to it nitric acid, and then a liquid which smelt of brandy, and with which he cleaned dirty coat collars for the people." Gay Lussac gladly joined him in the investigation, and he gratefully refers to this opportunity. He acknowledges that the foundation of all his later work was laid in Gay Lussac's laboratory.

And now to the main point. When Liebig was in his twenty-first year he received an appointment to a professorship of chemistry at Giessen through the influence of von Humboldt. His opportunity had come. He determined to have a laboratory for teaching. The great advantages he had reaped from his contact with Gay Lussac showed him clearly that if students were to study chemistry at all it must be in a well-equipped laboratory in contact with a teacher. And so the first laboratory was built, and became one of the great forces of the world. Soon students flocked to the little university from all parts of the civilized world, and the most flourishing and powerful school of chemistry that has ever existed was rapidly developed. One of the most brilliant pupils of this school, the late Professor Hofmann, of Berlin, in speaking of its influence says: "The foundation of this school forms an epoch in the history of chemical science. It was here that experimental instruction such as now prevails in our laboratories received its earliest form and fashion; and if, at the present moment, we are proud of the magnificent temples raised to chemical science in all our schools and universities, let it never be forgotten that they all owe their origin to the prototype set up by Liebig." The foundation of this school marked an epoch not only in the history of chemical science but in the history of science. The great success of this laboratory led naturally to the building of others, and in a comparatively few years a chemical laboratory, at least, came to be regarded as essential to every university. At first these were of necessity modest affairs. One of the earliest was that at Tübingen, in regard to which a curious fact may be mentioned. It appears that the ground available for Liebig's laboratory in Giessen was not altogether well adapted to its purpose, and in consequence, one of the larger working-rooms received light only from one side. When the laboratory of Tübingen was built later, that at Giessen was copied in every detail even to the

dark room, notwithstanding the fact that there were no buildings in the immediate neighborhood, and light in abundance was available.

As time passed, the era of the palatial laboratory was introduced. Probably we shall be very near the truth if we fix the responsibility of this era upon Bonn. Hofmann was called to Bonn from England, whither he had first gone under the most flattering conditions, and, before accepting the new call, he had, no doubt, received promises with reference to a laboratory. At all events, a building was erected, much finer than anything in the way of a laboratory that had ever appeared. As is customary in Germany, the professor's dwelling-rooms were in the building, and so beautiful were all the arrangements, that when the King of Prussia passed through at the time of the formal opening, he is said to have remarked, "I should like to live here myself." Soon after this Hofmann built the laboratory at Berlin, and again magnificence was the order of the day. Statues, and carvings, and tiles, and frescoes, took their place in the laboratory, and since then in Germany and France and Austria and Switzerland immense sums have been expended in the erection not only of chemical, but of physical, and physiological, and petrographical, and anatomical, and pharmacological, and geological laboratories. While of late years there has perhaps been a reaction, and a tendency to somewhat simpler buildings than those that at one time were the fashion, it is still true that the laboratories are semi-palatial, and a strict economist might find ground for complaint, claiming that results as good might have been obtained at smaller cost. It would hardly be profitable to discuss this point here. In this country we cannot be said in general to have been extravagant in building laboratories; certainly not, if we keep the European standard in mind. Most of the larger laboratories in this country are modest in their fittings, and the strictest economist could hardly find fault.

If we had the power to estimate the value of the work that has been done for the world by the scientific laboratories, it is certain that the money spent for them, however great the sum may be, would appear to us ridiculously small. The scientific method, as it is called, has been spread among men and has changed the whole aspect of things. The influence of the laboratory is felt in every branch of knowledge. The methods of investigation have changed, and everywhere the scientific method has been adopted. Who can tell what an enormous influence this has already had upon the thoughts and actions of men, and what still greater influence is to be exerted? The laboratory has impressed upon the world the truth that in

order to learn about anything it will not suffice to stand aloof and speculate, and that it is necessary to come into as close contact with that thing as possible. When the old philosopher wished to solve a problem, his method was to sit down and think about it. He relied upon the workings of his brain to frame a theory, and beautiful theories were undoubtedly framed, and many of these, probably all of those which had reference to natural phenomena, were far in advance of facts known, and often directly opposed to facts discovered later. Minds were not hampered by facts, and theories grew apace. The age was one of mental operations. A beautiful thought was evidently regarded as something much superior to knowledge. We have not learned to think less of beautiful thoughts or of mental processes, but we have learned to think more of facts, and to let our beautiful thoughts be guided by them.

And how did this come about? It is curious that the scientific method of work, which is altogether the simplest, should be the last to be adopted by the world as it is by individuals. It would be impossible to determine all the causes that have led to this result, but one of the immediate causes is undoubtedly to be found in the fact that, at an early period in the history of the world, those who worked with their hands came to be looked upon as inferior to those who worked with their heads alone. This operated powerfully to keep those who were best fitted to advance knowledge, from adopting the simplest method, viz., that of studying things. One who engaged in experiment did it surreptitiously, or lost caste.

Probably the most powerful force that first led men to experiment systematically was the conception of the philosopher's stone, and out of the labors of the alchemists sprang experimental science. Strange as it may seem, it was the love of gold that led to the development of scientific methods of investigation. In some way, probably through superficial observations, men came early to think it possible that the ordinary or base metals could be transformed into gold, and with this idea came the desire to experiment on the subject, and experiments on this subject have been kept up until the present century. So that in one sense, certainly, it is not true that "the love of money is the root of all evil." While much folly was committed in the name of alchemy—as much folly is committed to-day in the name of chemistry, and of medicine, and of other lines of work,—it is clear that the true alchemist was as ardent a worker as the world has perhaps ever seen; he was engaged in experimenting. He was teaching the world that the way to a correct knowledge of nature lies not in philosophy alone

but through coming in contact with the things of nature, and becoming personally acquainted with them. Paracelsus speaks of the alchemists of his time thus: "They are not given to idleness, nor go in a proud habit, or plush or velvet garments, often showing their rings upon their fingers, or wearing swords with silver hilts by their sides, or fine and gay gloves upon their hands, but diligently follow their labors, sweating whole days and nights by their furnaces. They do not spend their time abroad for recreation, but take delight in their laboratory. They wear leather garments with a pouch, and an apron where-with they wipe their hands. They put their fingers among coals, and into clay, not into gold rings. They are sooty and black like smiths and colliers, and do not pride themselves upon clean and beautiful faces."

This is certainly the picture of a hard worker, and as such we must look upon the alchemist. The work done by the alchemists was chemical work. It was allied very closely to the work done by chemists now-a-days. They hoped to find the philosopher's stone among chemical substances, and the transformation they hoped for was to be accomplished by a chemical method. They consequently devoted themselves to careful study of all known chemical substances, and in further studying the action of these substances upon one another they came into possession of new facts. There can be no doubt that we owe to the alchemists not only the foundation of chemistry, but the foundation of experimental science. In our superior way we smile at their futile labors to discover the philosopher's stone, but the tremendous results reached by them must not be lost sight of. The theory of the philosopher's stone was shown to be a false theory; but what of that? Probably many of the theories now held are false, but they are none the less valuable. An idea is of value if it leads to active work. Working hypotheses are the stepping stones of intellectual progress. The philosopher's stone was more than a stepping stone—it was a magnificent bridge. "Any idea," says Liebig, "which stimulates men to work, excites the perceptive faculty, and brings perseverance, is a gain for science, for it is work that leads to discoveries. The most lively imagination, the most profound wisdom, is not capable of suggesting a thought which could have acted more powerfully and lastingly upon the mind and powers of man than did the idea of the philosopher's stone. Without this idea chemistry could not exist to-day in its present perfection."

Let us now turn from the past to the present, and inquire, What is the province of a chemical laboratory in a university in this country? The first chem-

ical laboratories had for their sole object the training of chemists, and consequently, the methods adopted in them were adapted to this end alone. Afterwards, and indeed only quite recently, the importance of laboratory training in chemistry for those looking forward to the study of medicine came to be recognized; and, still later, the idea that such training might be made a valuable part of a general education appeared. At present, then, a chemical laboratory is called upon to furnish opportunities, (1) for the general student who does not expect to become either a technical chemist or a teacher of chemistry; (2) for the medical student; (3) for him who expects to devote himself to the practice of chemistry either in a chemical factory or in an analytical laboratory; and (4) for him who is to devote his life to teaching and investigation. In addition to furnishing these opportunities, it should also be a place in which investigation is constantly carried on by the teachers and advanced students.

As regards the teaching of chemistry to general students much might be said, but it will be possible to touch upon only a few points on this occasion. Most of the teaching is of this kind, and the subject is under active discussion. There can be no question that much of the work done in schools and colleges is highly unsatisfactory, many of the courses which are called scientific are most unscientific, and the student is often more harmed than benefited by his work. If a course in a science, whatever that science may be, does not tend in some degree to develop a scientific habit of mind in the student, it is not serving its legitimate purpose. If the experience of twenty-one years in teaching in college and university in this country is worth anything, your speaker, who has during that time had to deal with many students from all parts of the country, is justified in asserting that the minds of students who enter college are very far from being scientific, and the same can be said of most of those fresh from the colleges. By a scientific mind is meant one that tends to deal with questions objectively, to judge things on their merits, and that does not tend to prejudge every question by the aid of ideas formed independently of the things themselves. Perhaps an anecdote, though trivial, will make this clearer. In a book used by my classes for a number of years, there was one error that served as a simple test of the condition of the students' minds. In the directions for performing a certain experiment, the statement was made that a blue solution would result at one stage. As a matter of fact, the solution referred to was always a bright green. Each student being required to write out an accurate description of what he had seen, each one

in turn for a series of years described the green solution as blue, disregarding the evidence of his senses, and accepting the evidence of the printed word as more reliable. Occasionally one would appear whose conscience was troubled by the discrepancy, and who would boldly assert that the book must be wrong, but the number of these exceptions was insignificant. Surely this tendency to disregard the evidence of the senses is one that in the great majority of cases can be overcome. It would be better if it did not exist at all, and it probably would not exist if our educational methods were what they should be. We need teachers properly trained for carrying on scientific courses in our schools and colleges, and one of the most important branches of work in a university is the training of such teachers. Many of the courses in the schools and colleges are at present too ambitious. The attempt is made in them to do in a small way just what is done in a large way in the most advanced courses in universities. Instead of being what they should be, school courses and college courses, they are reduced university courses. Young men who have had the advantages of advanced courses feel so plainly the benefits they have received, that they naturally wish their own students in turn, whatever their ages may be, to get the same benefits. But time will not permit further discussion of this topic, and the main object in referring to it at all is to make it clear that the university laboratory has a great field of work in connection with the improvement of methods of teaching chemistry.

The teaching of chemistry to medical students suggests a number of thoughts, but they are rather of a special character, and this branch of our subject may be passed over with the remark that there is practical agreement as to this point, that what the medical student most needs at first is good scientific training, and that a course in general chemistry is well suited to this purpose. The most recently established medical schools require training in chemistry as one of the conditions of matriculation, and it is distinctly understood that it is chemistry, and not medical chemistry nor physiological chemistry, that is wanted.

The relation of the science of chemistry to the chemical industries is suggested by the next division of the subject. Here a most instructive object lesson was afforded during the past summer by a visit to the chemical exhibits in Jackson Park, where for the time being the products of the earth were concentrated. If you had had an intelligent chemical guide he would have pointed out many an interesting product from England, France, Russia, Italy, and this country, but his enthusiasm would have been reserved for the ex-

hibit of the German chemical industries. He would have pointed out a great variety of beautiful and valuable products, and you would, I am sure, have carried away with you the conviction that the Germans excel the world in this line of work. The reason is not hard to find. It has often been discussed, but it would not be right to let this opportunity pass without again calling attention to it. Those who are familiar with the subject do not hesitate to acknowledge that the reason why the chemical industries have reached such a flourishing condition in Germany is that the pure science has been so assiduously cultivated. The value of pure science in the industries has long been recognized there, much more clearly than in any other country, and the scientific method has become established in the factories much to their advantage. Men deeply versed in pure chemistry, whose minds have been clarified by training in the university laboratories, are eagerly sought for in the factories. So thoroughly convinced are the Germans of the value of pure science for the industries that, in the polytechnic schools, the plan of instruction in chemistry is essentially the same as in the universities, and some of the best purely scientific work is done in the laboratories of these polytechnic schools. We, in this country, have yet to learn the importance of this relation between science and industry, though undoubtedly some progress has been made in this line. We still endeavor to make iron and steel chemists, and soap chemists, and sugar chemists, and turn out hosts of raw products that are not worth their salt. Training along such narrow lines is a positive injury to the students. They are the victims of false pretenses. Let the training be as broad as possible and as thorough as possible, and the student will at least not be crippled, when he ought to be strengthened.

Finally, a few words in regard to what is commonly and properly spoken of as the highest work of the university laboratory—the training of teachers and investigators. Here, again, we find that Germany leads the world, and to her we must look for guidance, and, as is well known, to her we have looked for guidance for many years past. Just as Liebig betook himself to Paris, and Wöhler to Stockholm, so in turn Americans have betaken themselves to Germany to work with the great masters. This movement began soon after the establishment of the Giessen laboratory, and many an American obtained his inspiration in that laboratory. There are living to-day a number of American chemists who sat at Liebig's feet; a still larger number look back with pride to the time spent in the Göttingen laboratory where Wöhler's was for many years the master mind. Bunsen and Hofmann attracted large

numbers in their best days; and now Baeyer in Munich, Ostwald in Leipsic, Victor Meyer in Heidelberg, and Fischer in Berlin, appear to exert the strongest influence upon American students. Most of the chemists holding prominent places in this country have had more or less prolonged training in German universities, and it is not to be wondered at, therefore, that German methods have found their way into our laboratories. Indeed, there are some who appear to hold that, unless a method has a German tag on it, it is not worth considering. These hold, also, that the goal to strive for is the development of a laboratory like the best in Germany.

For many years Americans have been returning to this country after having enjoyed the best opportunities afforded abroad. Each annual crop have at least one thought in common, and that is, that chemistry in this country is in a deplorable condition, and that their labors are needed to bring about a reform. These young reformers are, of course, quite out of joint with the country, and often render themselves incapable of bringing about the results they desire, by refusing to recognize what is good and endeavoring to build upon that. The true and efficient reformer is a believer in continuity. Progress has always been by easy stages. The history of chemistry in this country shows that there has been a slow and steady advancement, and there is much promise in the present.

We owe to Germany very largely the investigating tendency which is showing itself more and more every year, and while even now the amount of original work done, as compared with that done abroad, is small, it is quite natural that it should be so.

A large part of the experimental work in Germany is done by advanced students and young chemists who are waiting for positions. It is by the aid of the former class especially that the professors work out their problems. Now, the number of advanced students of chemistry in this country is much smaller than in Germany, and the same is true even to a still greater degree of young chemists waiting for positions. Increase the number of these two classes here, and the amount of investigating work will be increased accordingly. But such increase must be determined largely by the demand, and the demand for thoroughly trained chemists is by no means as large as in Germany. The most important reason for this has already been spoken of. The value of these thoroughly trained chemists in the industries has not yet been generally recognized. Indeed, those particular industries in which the aid of scientific chemists is specially needed do not exist to any great extent, so that there is very little demand for such men. Most of the advanced

students are looking forward to teaching, and the graduate departments in our universities must for years to come look to these men for re-enforcement. Plainly, the number of such students must be comparatively limited, or the supply will exceed the demand. After completing their regular courses these students must secure occupation. The "bread and butter question" is involved. But the number of places to be filled is limited, and every year young men well fitted to take good places are left, at least for a time, without means of support, and all their efforts must go to securing positions; and, further, when they secure their places, the conditions are for the most part unfavorable to the carrying on of higher work, and although many of them struggle manfully for a time to keep up their enthusiasm, it gradually dies out for want of nourishment.

All this is discouraging, of course, to the advanced students of chemistry, and to those who wish to study chemistry, and thus the number is necessarily kept down. It is a fair question whether the number of graduates now studying chemistry is not unnaturally large. However this may be, it is clear that, as the amount of investigating work depends upon the number of advanced students, the amount of this work must of necessity be comparatively small. More could be done, no doubt, by teachers in colleges throughout the land, and the amount done by these teachers is increasing year by year, but it is difficult for them to secure co-workers, and, with unaided hands, the amount of chemical work that can be done by an individual is small.

Some of the most active workers in Germany are, as has been remarked, the young chemists, who are waiting for positions. These form a comparatively large class of picked men—men who have a strong tendency to investigation, and in some way see their way clear to at least a sufficient income to "keep body and soul together." Most of them have a hard struggle; though, on the other hand, some are men of means, whose ambition is not destroyed by the fact that they have fortunes. These men, of course, are desirous of securing advancement, and they know that their only chance lies in doing good work. It is the tremendous competition among these men that leads to the results for which Germany is famed.

Very well, you will say, if that is the secret, let us have that system here. But that is the very thing we can't get. We may be able to secure a few able professors, a number of bright advanced students, good laboratories, and supplies, but this intermediate class of active workers cannot be secured, save under conditions that do not exist here, and are not likely to

exist here for many years to come. Abroad the university career is one of the most attractive open to men; a professor is a very much respected member of the community, and his life is an unusually pleasant one. Without entering into a detailed comparison between the university career in this country and abroad, we may accept the general statement that this career exerts a much stronger attraction upon students there than here. Then, too, the opportunities in other fields are more limited there, so that these two forces working together, lead a number of the ablest young men to choose the university career, and to face the great difficulties which they know they will have to overcome before they attain success. The first condition of that success is good work done. There is absolutely no chance for one who does not carry on investigation, nor for one who is lukewarm in his work. The school is a merciless one, but the results probably justify the means.

What possibility is there of introducing this system in this country? Let the experiment be tried. Offer young men of ability the privilege of teaching in a university and nothing else, and how many, think you, will avail themselves of it? Or if some few exceptional men under most exceptional conditions should do so,

how long will they remain in the position? To keep them it will be necessary to pay them at least enough to live on, and then the very soul of the German system is destroyed. In short, we have our own problems to work out under conditions that we cannot control, and while we may be inclined to regret that we cannot have all that we should like to have; while we in this generation at least must necessarily be content to do with less scientific work than those who have breathed the German atmosphere have been accustomed to, there is pleasure in working out new educational problems, and there is satisfaction in causing the tree of knowledge to grow where before it languished. We have a great field to cultivate. It is fertile. Labor expended upon it will yield rich harvests. So let us to work. Those who have been in the chemical field for years welcome the new workers, and especially such a body of workers as has been brought together in this University. May the great activity in chemical work which has characterized this University during its short life continue unabated. The Kent Chemical Laboratory is already known of all the world, even before its doors are open. May its fame increase year by year.

*THE STATEMENT OF THE PRESIDENT OF THE UNIVERSITY FOR THE
QUARTER ENDING DECEMBER 31, 1893.*

MEMBERS OF THE UNIVERSITY, TRUSTEES, INSTRUCTORS, STUDENTS, AND FRIENDS:

It would not be strange if the Quarterly Statement should come to be a mere matter of routine, and of little interest. And yet, upon consideration, it *would be* strange if, in an institution in which a score or more of new educational experiments are being tried, in an institution surrounded on every side by activities of various kinds,—it would be strange, I say, if in such an institution, passing through its first stages of growth, there should not be with each recurring quarter something worthy of note; some word perhaps of warning; some statement of effort accomplished, or at least, an indication of needs to be supplied. The work of the present soon becomes a matter of history, and reflections upon the immediate past made from a point of view in close touch with that past, may not be altogether valueless.

The quarter just finished has been a very quiet one. The confusion incident to the closing of the Columbian Exposition was soon forgotten, and the academic spirit has throughout ruled supreme. Questions of policy had for the most part been settled during our first year's work. All had become accustomed to the established routine, and the time of instructors has been given without interruption of any kind to the great work for which the University was founded. The atmosphere of the institution, somewhat disturbed last year by the whirl and confusion of the Exposition, has composed itself into the tranquillity proper to a genuine University life. A measure of satisfaction is also experienced in the fact that, with the new Academic year, the members of the University find themselves more comfortably settled in their homes. The district inside of which our members have taken residence has been narrowed. We are closer together, at least locally, than we were before. It would be unnatural indeed if we should not now be drawn closer together in spirit and purpose.

The Attendance.

The total attendance of the Autumn Quarter was 773, distributed as follows: In the Graduate Schools 243, in the Colleges 363, in the Divinity School 167. The attendance during the Spring Quarter was 552. The gain is, therefore, a gain of 40 per cent. It is to be noted, however, that during the Spring Quarter

there were special reasons for the reduced number. The attendance of the Autumn Quarter of 1892 was 626. The gain, therefore, over the corresponding quarter of last year is about 25 per cent. Since the registration of last quarter, which closed on Convocation day, October 2, about 140 students have been registered in the various colleges and schools. It is believed that the total enrollment for the year will easily reach a thousand. In this calculation the students of the Morgan Park Academy and the students of the affiliated institutions are not included.

The System of Houses.

It is too soon, perhaps, to reach a definite conclusion in reference to the University Houses organized at the beginning of the Quarter, and yet it seems to be the feeling of all concerned that, with the modifications suggested by experience, the system will prove successful. It is at all events clear that a college spirit has been engendered which did not before exist, and without which the work of any institution will be largely a failure. The spirit of enthusiasm is one which must be cultivated, and the means necessary to the cultivation of it must be adopted, even though such means may not seem to contribute directly to the advancement of learning.

Another step in the same direction has been taken by the University Council in arranging for regular meetings to be held by the students and officers of the various divisions of the University. The Wednesday chapel service is each week to be given up, and in its place there will be held on the first Wednesday of each month a meeting of the graduate students and the Graduate Administrative Boards; on the second Wednesday, a meeting of the divinity students and the Divinity Faculty; on the third Wednesday, a meeting of the University College students and the Administrative Board of the University Colleges; on the fourth Wednesday, a meeting of the Academic College students and the Administrative Board of the Academic Colleges. At these meetings addresses will be given by members of the Faculty upon matters of interest to the particular college or school. This will at the same time draw the students of each several school or college more closely together, bring them into touch with the governing board, and provide an opportunity which has not hitherto existed for the presentation of information of a special character.

The Kent Laboratory.

The University congratulates itself and the scientific world that at last the great laboratory for which Mr. Kent has so munificently provided, is finished and occupied by the Department of Chemistry. This event has been celebrated by the University now during two days. This celebration is the feature of our Winter Convocation of 1894. It is an event in the history of the University and of the science of chemistry, the meaning of which will not be fully appreciated during the lives of those of us who have come together from far and near to recognize it. The gift which Mr. Kent has bestowed upon the University is the gift of a prince, and it has been given in a princely way. When it was seen that the sum at first designated would not secure in the building everything that was desired, that sum was, at the time of the giving of the contracts, increased twenty per cent. As the building progressed and other needs presented themselves, twenty per cent. was added again. When the building was finished and furnished, the generosity of Mr. Kent led him still to bestow for apparatus a sum equivalent to ten per cent. of the original gift; and so the building has cost \$235,000, instead of \$150,000. The building was presented to the University and accepted by the University last evening. Addresses celebrating the event were made. We have to-night listened to the formal address of dedication. The building has now passed into the hands of the Department for which it was erected. If that Department shall prove as faithful in its work as Mr. Kent has been generous in his giving, we may surely expect from time to time the announcement of most important scientific results. No man who remembers the anxiety of those early days before the citizens of Chicago had indicated, as they have since indicated, their adoption of the institution as the University of the city, will fail to remember also that it was at such a time that Mr. Kent made his gift, and in the making of it determined in large measure the standard of the University and the position which it should occupy among the universities of the world.

The Yerkes Observatory.

Since our last meeting a much debated question has been settled for all time,—the location of the Yerkes Astronomical Observatory. Sixty acres of land, beautifully and conveniently located upon the very shore of Lake Geneva, have been donated by Mr. John Johnston, Jr., to the University, and by formal act the site has been determined. The general plan of the building has been settled, and the details are now being arranged. Before we meet in Convoca-

tion again the foundations will have been laid, and another great structure will be rising from the earth, erected in the interests of pure science.

The Academic Colleges.

It has been feared by some that in the large emphasis laid upon university work the interests of the younger students in the earlier college years might be overlooked. Indeed, many think that higher work and lower work may not be carried on at the same time to advantage. The apprehension referred to, and the general principle in which it would seem to be founded, are both of them without justification. During the past Quarter there have been in attendance about 300 students in the Academic Colleges of Arts, Literature, and Science, including unclassified students. These students have received instruction from 36 instructors. Of these 8 have been professors, 2 associate professors, 7 assistant professors, 19 instructors, tutors, assistants, and docents. One-half of the teachers have been professors. When it is remembered that the men who occupy the rank of assistants, tutors and instructors in the University of Chicago would in the great majority of institutions in the West be full professors, the fear that the work of the Academic Colleges is being neglected is seen to be groundless. The fact remains that in no Eastern institution of high rank does the freshman or sophomore receive instruction from men of greater ability and experience, nor do the students of the lower classes, in any Eastern institution, have to so great an extent the privilege of electing courses in particular subjects intended for more advanced students. The *general* position, already stated, is likewise false. It is of the greatest advantage to the younger student to move in an atmosphere the characteristics of which are determined by men who have reached the more serious age. A stimulus is furnished in this way for thorough work which nothing else can furnish. The friends of the University may rest secure in mind in reference to this matter. Not only is the work of the Academic Colleges not overlooked, but a consideration is being given it which within no long time will show conclusively that the policy of the University is one sufficiently broad to include college work as well as university work, and that the resources of the University are directed to both alike.

The Academy.

By the terms of one of Mr. Rockefeller's gifts the University is required to sustain at Morgan Park, in the buildings formerly occupied by the Divinity School, a well-equipped academy. That the Academy is well organized, and that it has a corps of superior teach-

ers, is certain. It has likewise a most enthusiastic body of students. That which most surprises one in a visit to the Academy is the maturity of the students. Although the course of preparation includes a plan of study covering five years, few students in the Academy are younger than sixteen, and many who have reached the age of twenty-one have still before them several years of preparation. So far as age is concerned, and indeed so far as the character of the work performed is concerned, the Academy is practically a college. The administration of the new principal, Mr. Carman, has been most successful. The foundation for scholarly life of a high order has been laid during the first year. It remained at the Academy, as here at the University, to arouse that institutional spirit which, to be sure, forms no part of the curriculum in a school of learning, but which nevertheless is an essential feature of the best educational life. Improvements have been made in the buildings, and though the equipment is not yet what the terms of Mr. Rockefeller's gift demand, it may be fairly said that beginnings already exist at Morgan Park of what is destined soon to become an Academy not inferior to that at Andover or that at Exeter. The organic connection of this school with our institution will aid greatly in maintaining with rigidity the standard laid down for entrance to the colleges of the University. Students who, coming from a distance, unexpectedly find themselves unable to meet our entrance requirements, can without inconvenience or extra expense, finish their preparation in the Academy. It should be, and it will be, the policy of the University to strengthen the Academy at every point and make it all which its connection with the University warrants. The affiliated academies located in the city have come into closer relations with the University this year than last. Every six weeks examinations are given by the University, and the papers presented are read and marked at the University.

Meetings will be held from time to time in which the instructors of the affiliated schools in a particular department may join with the University instructors in considering questions of special interest in the department. The Annual Registers of all the affiliated academies will be issued in uniform style and upon the same general plan. Each Academy is represented in the University Convocations by a delegation of its students.

The Divinity School.

In the Divinity School of the University several important steps have been agreed upon by the Faculty, and in connection with these preparation is being made for carrying into effect the two regulations

adopted last year, in accordance with which the divinity year will continue thirty-six weeks, instead of thirty weeks, and the curriculum of study be arranged for work of a character leading to the degree of Ph.D. Already five candidates have presented themselves and are doing work with this degree in view. During the quarter it has been arranged that the income of the Divinity School shall be at least \$10,000 larger than it was last year. This gift is a new gift and definitely pledged. On the basis of this added income there will at once be appointed an associate professor in Church History, an associate professor in Social Science, and an associate professor in New Testament History. With these new chairs established, with a wider range of study offered by the new curriculum, and with the special advantages which accrue to the Divinity School from its close connection with the University, this seat of sacred learning may claim to make a presentation of work not elsewhere surpassed.

In view of the evident success of the house system, and in order to lift the beneficiary system of the Divinity School to a higher plane, it is proposed to organize divinity houses in accordance with the plan adopted in the University. This means that upon the adoption of this plan divinity students will pay like other students a regular rental for their rooms. This rental will be used as the nucleus of a scholarship and fellowship fund; this fund will be distributed to divinity students in accordance with the plan by which university and college fellowships and scholarships are now distributed. It is believed that in this way much will be accomplished in the direction of improving and dignifying the beneficiary system—a system which, as all will confess, has been attended with many difficulties.

Christian Settlement.

In addition to the University Settlement already established in the Stock Yards district, the Divinity School will now proceed to establish a distinctively religious settlement in some central portion of the city. In this settlement there will reside divinity students, married and unmarried; students of Social Science and others who are interested in work more distinctively religious than that undertaken by the University settlements. The work will be under the direct charge of the Professor of Social Science in the Divinity School, and will stand related to our Divinity School as does the Department of Clinics to a Medical School. Arrangements have also been made to begin at an early date the publication of a series of divinity studies to which the instructors of the school will from time to time contribute monographs. The greatest difficulty which the Divinity Faculty is compelled to

meet, is the fact that students devote too much of their time to outside work, especially preaching. It is unreasonable to imagine that a man who conducts service as a preacher, in a parish however small, can at the same time do full work as a student. Henceforth such men will be urged to do only two-thirds of the regular work of a student. It is far better that men who are compelled to earn their livelihood should devote six months to continuous study, and give the remaining six months of the year to the more practical work of the pastorate, thus making provision for their financial necessities. But I must not weary you with details. It is sufficient to say that our Divinity School proposes to be in every respect abreast of the times, open to students of every Christian denomination. The school, adopting the methods of Him in whose name it is founded, endeavors to teach those who place themselves under its influence the message of the Great Teacher, and the best methods by which a suffering humanity may be lifted nearer to the beneficent and loving God.

University Extension.

It was expected that this year the prosperity of the University Extension lecture work would show a marked decrease. So great was the interest manifested throughout the first year of the work, that a reaction seemed inevitable. The continuance of the World's Fair until late in the Autumn, postponed, of course, the establishment of work in the old centres and the organization of work in new centres. But contrary to expectation, and in spite of hindrances, the lecture-study work is more prosperous than during the corresponding season of last year. The number of centres supplied from the University during the Quarter has been thirty-three, and the number of courses given thirty-five. The number of different individuals attending these lectures has been six thousand. A most gratifying feature of the movement is the fact that there has been great increase in the amount of reading in connection with the lectures and in the number of papers prepared. The work takes on more and more the character of a permanent institution in the towns which have adopted it. The purpose of the Extension lecture work is becoming better understood. It is now seen that the aim is not primarily the assisting of non-resident students towards the completion of a college course and the conferring of diplomas and degrees, but rather the directing and stimulating of the reading and study of those who wish to read and study under direction. In every community there are many who desire to maintain

systematic, intellectual activity along various lines of literature, history, and science. No intelligent person supposes for a moment that the University Extension lecture takes the place of the more systematic, laborious, and continuous discipline of the college or the university. But it is clearly becoming evident that the discipline has an intrinsic value of its own which will insure its permanency as a part of the educational activity of the community. The problem before the University is wisely to meet this demand, and to direct the interest already excited in such a way as to lead to permanent results. A steady increase has shown itself in the work of the Correspondence Teaching Department, and arrangements have been made for the immediate organization of twenty-two classes in various subjects to meet in different parts of the city in order that thus the advantages of the University may be extended to those who cannot come to it.

Student Publications.

It has been an unfortunate thing for the University that in the public mind a clear distinction has not been drawn between the duly authorized publications of the University, the periodicals for which the University stands responsible before the world, and other publications undertaken by students of the University. Thus far the policy has been pursued of allowing the students of the University perfect freedom in the matter of their publications. Encouragement, indeed, has in some cases been given. It would seem, however, that the time has come for a more restrictive policy to be introduced. The good name of the University might otherwise be exposed to serious injury. A literary magazine purporting to be published at the University is naturally enough thought by many at a distance to be published upon the responsibility of the University. Private enterprises, of whatever sort, undertaken primarily for pecuniary purposes, by persons connected with the University directly or indirectly, must, unless expressly approved by the University under certain strict conditions to be rigidly observed, seek some other field in which to operate. While everything possible will be done to encourage literary activity on the part of the students of the University, it is of course not incumbent upon us to furnish capital of any kind for the launching of magazine enterprises, the fortune of which must long remain doubtful. We scarcely need assure our friends that the University has at no time proposed to itself the establishment of a general literary magazine to rival the great monthlies now published in the Eastern cities.

The Most Pressing Need.

If you wish me to tell you to-night the most pressing need of the University, I will do it in a few words. There are on the University grounds to-day three distinct heating plants, all of which are temporary. These different plants are conducted at great waste. Engineers, firemen and watchmen are required for all. No building on the grounds is adequately lighted. There is as yet no system of ventilation in our general lecture hall, nor can, indeed, the ventilation system of Kent Chemical Laboratory, the most perfect ever planned, be set in motion. What is it that we need? A central heating and electrical plant, from which every building of the University may derive its supply of heat, and in which shall be located the electrical machinery, which shall at the same time adequately light and ventilate the University buildings. This need cannot properly be classified under the head of library or apparatus. It is, however, a necessary part of the modern equipment of a group of buildings. We need a chapel and general library building, additional laboratories and additional dormitories, but we need above all, and before all, the proper facilities for heating and lighting the buildings that have already been erected. Is there not somewhere a man who will appreciate the great necessity of our case and render the needed assistance?

Mr. Rockefeller's Gift.

It is a pleasant task to recall to your remembrance the promise made a few weeks since by our friend and funder, Mr. Rockefeller, of \$500,000, payable in four quarterly instalments, beginning July 1 of the present year, provided the conditions of the gift of Mr. Ryerson were fulfilled. This means a million dollars for the University July 1, if between now and that time \$225,000 additional money can be secured. It is not safe under all existing circumstances to be very confident as to the success of the effort to accomplish this. Any one familiar with the present condition of the financial world knows that this amount of money can be obtained only with the greatest difficulty. At an early date the canvass will be begun. The assistance of every friend of the University will be required. If successful, the University will have a million dollars for general equipment, and thus the third step in its permanent establishment will have been taken. The first was the endowment of instruction; the second the provision for buildings; the third step, the step still remaining, is the furnishing of the equipment necessary to make this instruction and these buildings available. The gift of so large a sum as half a million, to be used outright for the purpose of equipment, was

a gift under all the circumstances not to have been expected from Mr. Rockefeller. He had plainly indicated that he would care for instruction, and he had also expressed the hope that Chicago would care for buildings and equipment. He realized, however, the peculiar situation in which we found ourselves—the financial stringency which defied every effort to secure money. Seeing our necessities, and appreciating all that we had tried to do, he has come forward in a new and unexpected way, and the University has stronger evidence than ever before of his deep interest in its work. I said a moment since that to-day our greatest need is a heating and electrical plant. A week ago our greatest need was books. It seemed hardly possible to continue work without large additions to the various departmental libraries. But how could these additions be secured until the success or the failure of the effort to raise the million dollars became an accomplished fact; and on the other hand, how wait until July 1? The problem was a serious one. It was presented to our friend in New York City. He recognized its serious character, and believing that the million dollars would be raised, knowing that in any case the books were needed and must be purchased, he has arranged for \$50,000 to be spent at once for books and equipment. The distribution has already been made, and the several departments are now at liberty to make their orders in accordance with the appropriations designated. Did ever institution have a better friend?

Purchases and Donations.

On Saturday last we purchased the most complete set of United States public documents in existence; more complete, indeed, than that possessed by Congress itself. Light surely has come where before there was great darkness; and thus, one by one, the difficulties of our situation are being overcome.

The University was pleasantly surprised a day or two before Christmas, by receiving from Mrs. Amanda S. Cook, of the city of Chicago, a gift of \$1,000, to be used as the President might indicate.

Very numerous and generous donations have been made to the scientific collections of the University from the exhibits at the Columbian Exposition and from other sources. The list is too long for full enumeration. It embraces valuable gifts from the commonwealths of Arizona, Arkansas, California, Colorado, Dakota, Florida, Illinois, Kansas, Kentucky, Michigan, Minnesota, Montana, New Mexico, North Carolina, Oregon, Washington, and West Virginia; from the neighboring provinces of British Columbia, Ontario, Quebec, and from the Canadian Government;

from the more distant countries of Cape Colony, Chili, France, Great Britain, Greece, India, Italy, Mexico, New South Wales, Russia, Spain, Sweden, and Venezuela. Among the corporations and individuals who have made contributions may be mentioned The Standard Oil Company, The Barber Asphalt Company, The Carborundum Company, The Colorado Honestone Company, The Illinois Clay Company, The New Pedrara Onyx Company, The Granville Lead and Zinc Company, The Wisconsin Lead and Zinc Company, The Webb City Commercial Club, The Iron Mountain Railway, The Copper Queen Mining Company, The California Mining Bureau, W. R. Grace & Company, The Thetford Asbestos Company, Mr. C. S. Beachler, Mr. J. A. Edman, and Mrs. Henry Sheldon.

The United States Government and the United States Geological Survey have made valuable loans for an indefinite time.

With an appreciation, which words will not express, of the kindness of our friends, and with a desire stronger than ever before to do for the cause of

education all that, situated as we are, it is possible for us to do, we take up the work of the New Year. The work is an arduous one, but the reward is a great reward, one surely worth the struggle, and one to gain which we may with entire confidence put forth every effort, relying, as we have relied, upon strength other than that which we ourselves possess.

The President then read the following letter, handed him by Mr. Kent.

“In thanking the speakers for the many kind things said this evening, I would, in reply, like it said for me that if in any small measure the work of my life can contribute to the advancement of knowledge and the greater happiness of men; if this can be done in this city, where my busy days have been spent, and where my heart is; and if, as I believe, we who have aided in the work of erecting this great University have helped to lay the foundation of what can never be destroyed, I feel in this work a pride and a happiness that has never been equaled in my life.”

SCHOLARSHIPS AND CERTIFICATES.

SCHOLARSHIPS.

Scholarships in connection with the December examinations for admission were awarded to the following students:

YARZEMBSKI, VLADYSLAS, and FORD, MARGARET.

Honorable mention was accorded to Alice Winston.

CERTIFICATES.

Academic College Certificates were conferred upon the following students:

BOOMER, JENNIE KATHRYN.

SCOVEL, LOUISE CLAIRE.

DEGREES.

At the Winter Convocation, January 2, 1894, the following degrees were conferred:

DOCTOR OF PHILOSOPHY.

JOHNSON, HERBERT PARLIN, A.B., Harvard University, '89; A.M., *ibid.*, '90; Graduate Student of Zoölogy and Neurology in the University of Chicago, '92-93; Fellow in Zoölogy, *ibid.*, '93-94:

Department: *Zoölogy.*

Thesis: *A Contribution to the Morphology and Biology of the Stentors.*

MASTER OF ARTS.

HULLEY, ELOISE MAYHAM, A.B., University of Michigan, '90; Graduate Student in the University of Chicago, '92-93.

Department: *Philosophy.*

Thesis: *Correspondence between Stoic and Christian Ethics.*

THOMPSON, CHARLES SPROULL, A.B., Harvard University, '87; Graduate Student in the University of Chicago, '92-93.

Department: *Political Economy.*

Thesis: *Some Problems of Railway Finance.*

BACHELOR OF DIVINITY.

(Theological Union.)

ASHBY, JAMES WILLIAM, East London Institute, '93.

Thesis: *Results in England of the Evangelical Revival in the Eighteenth Century.*

BACHELOR OF THEOLOGY.

(Theological Union.)

WHEELER, HORACE JONATHAN.

Thesis: *The Historical Development of the Doctrine of the Atonement from the time of Anselm.*

BACHELOR OF ARTS.

DICKERSON, PHILIP JACKSON.

MILLIGAN, HENRY FORSYTHE.

WILLIS, HENRY PARKER.

THE ACADEMY CONVOCATION.*

In the unavoidable absence of the President of the University, Professor H. P. Judson, Head Dean of the Colleges, presided. Rev. W. D. McFarland, Ph.D., of the Presbyterian Church, Morgan Park, was the chaplain of the evening.

The convocation address was delivered by Rev. Dr. P. S. Henson, of the First Baptist Church, Chicago. It was a strong plea for the best things in what is old. While expressing full sympathy with many of the new ideas of the day, and while cordially approving the new prominence given to youth and its efforts, Dr. Henson held up to our respect, admiration, and reverence, old men whose lives have been full of varied and heart-stirring experiences; old ministers that, like Caleb of old, ask not for some valley of ease, but for a mountain from which to drive the sons of Anak; the old education that was full of great thoughts which stir the heart and develop the soul; the old books that will never wear out, and chiefest among them all, the book of God—the Bible.

The following list of students, read during the convocation exercises, is that of the fifteen students who attained the highest rank during the Autumn Quarter:

Colwell, Nathan P.,	Hoy, Clinton L.
Conant, C. Ernest,	Lay, Henry H.,
Congdon, George E.,	Merriman, Dorcas F.,
Cutler, Ward A.,	Morgan, Ruth E.,
Dudley, Gleason A.,	Reed, Carl S.,
Dumke, Julia F.,	Stieg, Bertha S.,
Franklin, Bertram A.,	Webb, John E.,
	Wolfe, Clara,

An interesting feature of the exercises was the awarding of a certificate to the first graduate of the Academy, Arthur T. Pienkowsky, of Chicago. Dean Judson, in presenting the certificate, expressed, in a few well-chosen words, the hope that the excellent record which Mr. Pienkowsky had made in the Academy would be continued in the colleges of the University of Chicago, where he is continuing his work.

The incoming students, some fifteen in number, who have either entered the school or passed from the introductory year of the Academy to its regular course since the last Convocation, were recognized.

* Held at Blake Hall, Morgan Park, Friday, January 12, 1894.

IMPORTANT OFFICIAL ACTIONS OF THE BOARD OF TRUSTEES,

OCTOBER-DECEMBER, 1893.

OCTOBER 31.

A letter was received from Mr. *Sidney A. Kent* authorizing the University to expend \$20,000 for the equipment of the Kent Chemical Laboratory.

A statement was placed on the records in recognition of Mr. *Martin A. Ryerson's* renewal of his subscription of \$100,000, conditioned on the raising of \$500,000 for the general purposes of the University.

An expression of the feelings of the Board on the assassination of Mayor *Carter H. Harrison* was entered on the records, and the Secretary was directed to communicate the action taken to Mayor Harrison's family.

NOVEMBER 28.

Professor *J. Lawrence Laughlin* was granted leave of absence for two months, he having been invited to advise with the government of San Domingo on the reform of their monetary system.

The resignation of *Richard Waterman*, class-secretary in the University Extension Division, was accepted, and *O. J. Thatcher* appointed to the secretaryship of the class-work for the remainder of the year.

It was voted to locate the *Yerkes Observatory* at Lake Geneva.

Action was taken providing for the erection of a President's House.

A letter was received from Mr. *John D. Rockefeller* subscribing \$500,000 for the general purposes of the University, on condition that the \$500,000 contemplated in the subscription of Mr. *Ryerson* should be raised.

The resignation of *H. N. Stokes*, Assistant Professor in Inorganic Chemistry, was accepted.

DECEMBER 19.

An offer of 50 or more acres of land at Lake Geneva as a site for the Yerkes Observatory was received from Mr. *John Johnston, Jr.*, and was accepted.

The resignation of *T. H. Root*, Tutor in New Testament Greek, on account of ill-health, was accepted.

A letter was received from Mr. *John D. Rockefeller* announcing the payment of his subscription of \$1,000,000 made in December, 1892.

DECEMBER 29.

A letter was received from Mr. *John D. Rockefeller* subscribing \$50,000 to be appropriated to the purchase of books and apparatus.

In accordance with the above letter the annual appropriations for books and apparatus were made to the several departments.

NEW APPOINTMENTS TO THE UNIVERSITY,

DURING THE QUARTER, ENDING DECEMBER 31, 1893.

1. *Of Members and Graduates of the University:*

BOLZA, OSKAR, Ph.D., Associate Professor, to a Professorship in Mathematics.

KENT, CHARLES F., Ph.D., Docent, to a University Extension Instructorship in Biblical Literature.

MEYER, ADOLPH, Ph.D., Hon. Fel., '92-'93, to a Docentship in Neurology.

MERRIAM, J. C., Ph.D., Graduate Student, to a Docentship in Palæontologic Geology.

QUEREAU, EDMUND C., Ph.D., Fellow, to a Docentship in Palæontologic Geology.

2. *Of Members of other Institutions:*

BURNHAM, SHERBURNE WESLEY, A.M., Chicago, Ill., to the Professorship of Practical Astronomy.

ARNOLT, W. MUSS, Ph.D., Ann Arbor, Mich., to an Instructorship in Biblical and Patristic Greek, and the Assistant Recordership.

CURTISS, RICHARD S., Ph.D., New Haven, Conn., to a Docentship in Chemistry.

APPOINTMENT OF MEMBERS AND GRADUATES OF THE UNIVERSITY
IN OTHER INSTITUTIONS.

- BREWER, W. F., Fellow in Latin '92-93, *appointed Instructor in Latin and History* in the *Portland Academy*, Portland, Oregon.
- BRIDGE, JOHN L., Fellow in Chemistry, '92-93, *appointed teacher in Chemistry and Physics* in the *Connecticut Literary Institute*, Suffield, Conn.
- WATERMAN, RICHARD, JR., Secretary of Class-Work, University Extension Division, *to take charge of the Pedagogical Exhibit of the Drexel Institute*, Philadelphia, Pa.
- HATFIELD, HENRY RAND, Graduate Student, *appointed Instructor in Philosophy and Political Economy*, *Washington University*, St. Louis, Mo.
- HULL, S. H., Academic Student, *appointed Instructor in Lake Forest Seminary*, Lake Forest, Ill.

AWARD OF FELLOWSHIPS.

The following award of University Fellowships was announced at the Winter Convocation, January, 1894:

- ALDEN, GEORGE H., *History*, S.B., Carleton College, '91; A.B., Harvard University, '93.
- CUMMINGS, JOHN, *Political Economy*, A.B., Harvard University, '91; A.M., *ibid.*, '92.
- GRANT, GEORGE KUHN, *English*, A.B., Ottawa University, '91.
- HARDY, SARAH McLEAN, *Political Economy*, Ph.B., University of California, '93.
- JOHNSON, HERBERT PARLIN, *Zoölogy*, A.B., Harvard University, '89; A.M., *ibid.*, '90.
- QUEREAU, EDMUND C., *Geology*, Ph.B., Northwestern University, '88; Ph.M., *ibid.*, '92; Ph.D., Freiburg, Baden, '93; Fellow until Jan. 1, '94.
- SIKES, GEORGE CUSHING, *Political Economy*, S.B., University of Minnesota, '92.
- STAFFORD, JOHN, *Philosophy*, A.B., University of Toronto, '87; D.B., Morgan Park Theological Seminary '89.
- WALKER, DEAN AUGUSTUS, *Semitic Languages and Literatures*, A.B., Yale University, '84; A.M., *ibid.*, '90.
- WHITNEY, ALBERT WURTS, *Physics*, A.B., Beloit College, '91.

The following award of Special Fellowships was announced:

A Fellowship in English offered by Iowa College, Grinnell, Ia.:

BOWEN, MARY, Ph.B., Iowa College, '93.

A Fellowship in History offered by C. W. Miller, Franklin, Pa.

CATTERALL, R. C. H., A.B., Bucknell University, '91.

A Fellowship in Comparative Religion offered by Professor Emil G. Hirsch:

WOODRUFF, CHARLES E., *Biblical and Patristic Greek*, A.B., University of Pennsylvania, '86.

The following award of University Honorary Fellowships was announced:

- BARRETT, S. B., *Astronomy*, A.B., University of Rochester, '89.
- BROWN, FANNY CH., *Political Science*, A.B., Smith College, '82; A.M., *ibid.*, '85.
- FOWLER, FRANK H., *Sanskrit*, A.B., Lombard University, '90.
- HARDCASTLE, FRANCES, *Mathematics*, Mathematical Tripos, Cambridge, England; Part I, '91; Part II, '92.
- HERRON, BELVA, *Political Economy*, L.B., University of Michigan, '89.
- MERRIAM, JOHN C., *Geology*, S.B., Lenox College, '86; Ph.D., Munich, Germany, '93, Fellow until Jan. 1, '94.
- SPENCER, CHARLES W., *Social Science*, A.B., Colby University, '90.
- WEBSTER, WILLIAM CLARENCE, *History*, A.B., Albion College.
- WEST, MAX, *Political Economy*, S.B., University of Minnesota, '90.

BUCKLEY, EDMUND, A.M., University of Michigan, '84.

The Columbian Damen Club Helene Lange Fellowship offered by a club of German ladies in the City of Chicago:

ELY, E. ANTOINETTE, *Latin*, A.B., University of Cincinnati, '87; A.M., *ibid.*, '92.

A Fellowship in Latin offered by Mr. Hutchinson: GILBERT, EMMA L., A.B., Cornell University.

PUBLICATIONS BY MEMBERS AND GRADUATES OF THE UNIVERSITY.

Lists of recent publications (books, articles, reviews and notices) by those who have been or are now members of the University will be published from time to time in the QUARTERLY CALENDAR. In order to make these lists as complete as possible the members and the graduates of the University are requested to send titles of their recent publications, with the necessary

data, to the Recorder's office. A complete bibliography is being prepared at present, which will shortly be published in pamphlet form. For this reason, it is thought best not to insert in this number of the CALENDAR the titles of recent books and articles, etc., that are in the hands of the Recorder.

IMPORTANT UNIVERSITY EVENTS.

EXERCISES IN CONNECTION WITH THE OPENING OF KENT CHEMICAL LABORATORY, MONDAY, JANUARY 1, 1894, 8:00 TO 10:00 P.M.

KENT CHEMICAL LABORATORY.

Kent Chemical Laboratory, erected through the munificence of Mr. Sidney A. Kent, of Chicago, at a cost of \$235,000, was presented to the University by the donor, Mr. Kent, and accepted by PRESIDENT HARPER, in behalf of the University.

Prayer was offered by Dr. G. W. Northrup, of the Divinity School. PRESIDENT HARPER then said :

LADIES AND GENTLEMEN :

As the most fitting introduction to the exercises of the evening, I read to you the contents of the letter which I hold in my hand :

“Mr. William R. Harper, President of the University of Chicago. My Dear Sir: I hereby give this building, fully furnished and completely equipped, to the University of Chicago as a chemical laboratory, for the use of this and future generations.

“Trusting that the standard of education will be such as to command the respect, not only of this country, but of the civilized world,

Very truly yours, S. A. KENT.

“Chicago, January 1, 1894.

THE PRESIDENT'S ADDRESS.

Mr. Kent in his modesty prefers in this simple way, rather than by a personal address, to conclude a transaction the magnitude and significance of which it is difficult for us to appreciate. With a stroke of the pen he has devoted to the cause of science, to the cause of one among many sciences, the sum of nearly a quarter of a million dollars. The most significant thing in connection with this magnificent gift is the time at which it was made. Two millions of dollars had been donated for endowment and land. For only one building, and that a dormitory, had at that time provision been made. The University in very truth was still on paper. Not a few good people, East and West, had given utterance to the opinion that perhaps, after all, the University of Chicago must begin as other institutions had begun, and secure, only after many years, the facilities for work of a university character. For five months there had been sowing of seed. Some of us had expected results at a date much earlier. The situation was fast becoming a painful one, and the question not infrequently arose: Will Chicago

accept this University in the spirit in which it has been established, and rally to its support? Will the citizens of Chicago show their appreciation of the generous act performed for their city by a man living far away? One must believe that if the answer to these questions had been much longer delayed it would have been a negative answer. It was just at this time of painful suspense that Mr. Kent came forward with his munificent proposal, and in a moment the question was answered. The University was to be the University of Chicago. Within a month another million of dollars was given by Mr. Rockefeller for endowment, and within ninety days the citizens of Chicago had contributed more than a million of dollars for additional buildings. In other words, within four months the resources of the University had been doubled. The connection between all this and the gift of Mr. Kent is so close as not to require explanation.

Building of the Laboratory.

Hardly less significant was the growth and development of Mr. Kent's idea. The first \$100,000 had been considered a sum sufficient for the purpose. Before a definite conclusion had been reached the sum was fixed at \$150,000. When the contracts were made for the erection of the building the sum designated was \$182,000. When the bills came to be paid, including furnishings, the sum was \$215,000, and to this Mr. Kent most generously added an additional \$20,000 for equipment, making in all \$235,000. Everything was planned, and it was necessary to plan it, upon a large scale. Mr. Kent would not in any case consent to the use of material that was not the best. A system of ventilation the most perfect ever introduced into a building, was provided, and so from month to month the work went on until to-day we have a finished, and, let us hope, a perfect laboratory. In all this the standard was fixed for the other laboratories of the University. Had the Chemical Laboratory cost \$100,000, the Physical Laboratory likewise would have cost \$100,000. The Chemical Laboratory, however, cost \$235,000, and so the Physical Laboratory when finished will cost its donor \$230,000. With such provision for the Departments of Physics and Chemistry, it followed naturally

that Astronomy, when the subject was taken up, should be treated in a manner equally magnificent, and a sum even greater has been provided by another friend of the University for this, the oldest of the sciences. Shall now the Biological Department be less munificently equipped? The necessity under the circumstances of doing a large thing may, to be sure, postpone for a time the building of Biological Laboratories, but in the end it is clear that, when built, the standard will be that already fixed by Mr. Kent.

Inception of the Plan.

I may be pardoned if, in this connection, I speak of the spirit and the purpose which have prompted this gift. I shall never forget the Sunday afternoon, just two years ago, when I first met Mr. Kent and first talked of this matter. He had already thought about it, but was still uncertain as to the particular thing which it would be wise to undertake. Several possibilities were mentioned and discussed. It was clear from the discussion that the purpose of Mr. Kent was a most noble one. It was with him simply a question of accomplishing good for his fellow-men. And yet he was able to take so broad and high a view of the situation as to see the importance of making ample provision at the outstart for the work of investigation and research. It was this ideal kind of university work which appealed to him, and which led him to decide, after considering other suggestions in which the more practical element formed a larger part, in favor of establishing a laboratory, the work of which should be done in the interests of pure science. The time, therefore, of the gift, the breadth of view and the ideal purpose which inspired the giver, were alike significant.

Interior of the Building.

The arrangement of the building is as follows:

The basement contains a furnace room, with a set of gas furnaces with air blast of the most modern construction, for crucible work, muffle work, tube heating, and other purposes, a constant-temperature room, a room fitted with steam and other appliances for work on a large scale, a mechanical workshop and storage rooms.

On the first floor are one small and two large lecture rooms and a large lecture hall seating 300 persons, fitted for use as a chemical lecture room if desired. This floor also contains a chemical museum, a large private laboratory, a room with northern exposure, especially fitted for use as a gas analysis laboratory, and also apparatus and preparation rooms connected with the lecture rooms.

On the second floor are two large laboratories intended for research and advanced work; three private laboratories for the professors, balance, combustion, air furnace, and storerooms; a balcony for out-of-door work, and the chemical library, which contains full sets of the most important journals, as well as the most important text-books and other works relating to chemistry.

On the third floor are three large laboratories for general and analytical chemistry, a storeroom, a preparation room, a room especially fitted for optical and photographic work, a balance room, and a private laboratory. The most modern system of ventilation has been adopted, air of constant temperature being forced in by fans from below, and withdrawn by a fan above. The building will be lighted throughout by electric lights, and the laboratories will be provided with electricity adapted to every kind of electro-chemical work.

For Practical Uses.

Reference has already been made to the purpose of the donor in its relations to the work of research and investigation. I cannot forego this opportunity to say still another word in respect to it. Mr. Kent shares the hope, and the University joins with him, that this laboratory, formally opened to-night, may do great work in preparing men for practical work along lines within the realm of the science to which the use of the building is dedicated. But in addition to this, the founder of the laboratory and the trustees of the University, for all of whom I may now be permitted to speak, sincerely hope that in this building there may be worked out results in chemistry not yet obtained, that the heart of every worker, whether student or instructor, may be fired with a desire to contribute something of value to the knowledge of men in this important department. We believe that additions made to our knowledge of the great laws which underlie the structure of the universe in all its elements, is an addition to our knowledge of God, for God is over all and in all.

Thanks Due to Many.

It is my duty, and I esteem it also my privilege, on behalf of the University, to thank most heartily our friends in other institutions of learning who have shown so deep an interest in this particular undertaking of the University of Chicago. Letters of congratulation have been received from many friends. I hold in my hand more than a hundred such letters from the leading professors of chemistry in this country and Canada. These are not simply letters of regret. Many of them contain courteous and generous words con-

cerning the good fortune of the University in having a friend able and willing to do for it so good and so great a thing.

We are especially grateful to the professors of chemistry from our sister institutions who have done us the honor to be present in person at this time. We are sure that they rejoice with us in our good fortune, and that they join with us in the hopes which have already been expressed. Of our debt to Professor Ira Remsen, of the Johns Hopkins University, and to Professor Nef, of our University, I shall have occasion to speak later. To others who have given time and thought to the details of the laboratory, among whom may be mentioned Professor Freer, of the University of Michigan, and Professor Stokes, late Assistant Professor in the University of Chicago, the University expresses its thanks. To Mr. Hutchinson, Mr. Kohlsaat, and Mr. Walker, of the Board of Trustees, for the special interest taken by them in the work completed to-night, acknowledgment is due. We are under obligations in particular to Mr. Walker, who throughout has acted as the representative of Mr. Kent, and who, as such, has served most efficiently both Mr. Kent and the University.

And now, representing the Trustees and Faculties of the University, I accept from Mr. Kent this magnificent gift for the promotion of the cause of science, and I pledge him that every effort will be put forth to fulfil his wishes and to advance the interests of the cause to which he has made so noble a contribution.

The President then introduced Professor Ira Remsen, of the Johns Hopkins University, saying that when Mr. Kent made his gift and the Trustees saw their way clear to go on with the building, Professor Remsen had been asked to come and plan the laboratory.

In a short address Professor Remsen modestly disclaimed the large share of credit given him by the chairman.

He had taken great pleasure in helping to plan the laboratory. In former laboratories he had seen that there were in most cases a large number of small rooms, which he thought was not the best plan. In this laboratory he had planned a small number of large rooms, for the purpose of bringing the students and instructors together in laboratory work. The details of the plans had been all arranged by Professor Nef, and while he (the speaker) no doubt was responsible for the mistakes, Professor Nef had devised all the good points. In closing he said:

"I speak for chemists and for chemistry, and I speak for Mr. Kent publicly in this matter. Chemists all over the country have heard of his name, and know of the great deed he has done, and I speak in the name of these chemists the thanks of the profession to the generous donor."

Address of Professor Nef.

IMPORTANT FACTORS IN THE DEVELOPMENT OF A RESEARCH LABORATORY.

There can be no doubt that the great energy and ability of the American people have thus far been devoted almost exclusively, and with remarkable success, to the material development of the country. This, as Professor Hale showed very clearly in his convocation address last June*, was a necessity of the situation; the intensity with which this work has been done and the marvelous achievements in a material respect, have been alike the wonder and the envy of the old world. At the same time, however, the criticism is made that America has comparatively little to show in the way of actual achievements in arts, literature, or science—which must be regarded as very important factors in the history of a country. So vigorous has been the work of developing the material interests of the country, and so alluring the opportunities in this direction to men of enterprise, that it is no wonder, and indeed quite natural, that other things should, for the time being, be apparently lost sight of. Americans have been accused of being worshippers of gold to the exclusion of every ideal thing except religion. Certain it is that when Louis Agassiz told people that he had to devote himself to science, and had consequently no time to make money from his discoveries, he was regarded as an interesting curiosity.

As a consequence of this state of affairs it was natural that education, including the study of the sciences, was regarded solely as a means to a practical end. The majority of the ablest men were anxious to get through with their general school work as soon as possible and thus be able to devote their entire strength to the great material opportunities at hand on every side.

Within the last fifteen years a most remarkable change has taken place in respect to higher education in this country. This has been in the realization that a university has a two-fold function: the first, being to teach or to impart known facts; the second function, which had before been overlooked or much neglected, being to enlarge the boundary of knowledge in arts, literature, and science. It has become perfectly clear

*QUART. CAL. No. 6, p. 3.

that the standing of a university in the world depends chiefly on the ideal achievements of the men connected with it, *i. e.*, on the work done by them in enlarging the boundary of human knowledge. Although this point may now be generally recognized, more is required than this. The men in the new movement are pioneers, and the difficulties in the way are enormous; it is absolutely necessary that a portion of the energy and ability which have hitherto been applied almost exclusively to the material advancement of the country, be diverted into university or into ideal channels. That the tendency of late is in this direction, is a most interesting and cheering fact. The pioneer work in developing the material resources of the country has been practically accomplished, and in a most wonderful manner, and it is this latter fact that has long ago led some of the keenest minds of Europe, among others the great chemist Liebig, to predict great things of this country when once it has recognized the importance of ideal as well as material achievements. That the country has been awakening to its possibilities in the former respect, is apparent on all sides.

The foundation of Johns Hopkins University, of Clark University, of the Leland Stanford, Junior, University, of the University of Chicago, and the establishment of graduate schools at Harvard and at Columbia, are evidences of this. The foundation of the Art Institute, of the Thomas Orchestra, and of the Columbian Museum in this city, are local evidences of this tendency. The chief pride of every one in the World's Columbian Exposition has been its great artistic success, and the resultant educational effect.

When a magnificent building, such as the one we are formally dedicating this evening, is erected and equipped by a citizen of Chicago, Mr. Sidney A. Kent, to be devoted to the cause of chemical science, this is a matter in which not only Chicago, Illinois, the United States, but the whole scientific world has reason to rejoice. Here is what Du Bois Raymond, has justly called another temple to be devoted to the cause of science, which is international in its interests and not limited to any age or country. Much will therefore be expected from those whose privilege it will be to work in this building for the cause of chemical science.

There is one lesson which the past has taught and which is of vital importance, namely: "*The spirit of pure scientific research must be fostered with the utmost care.*"

A chemical laboratory is judged by the scientific world chiefly by the *quality* of its scientific publications, and by this is meant the results of original work, carried out in the laboratory, which positively advance

the science or open new fields therein. While it is true, to a great extent, that the power of scientific investigation is inborn and not acquired, it is also certain that a proper atmosphere must exist for its development. It requires inspiration and example to kindle into flame the spark which may exist in men beginning their life-work. That the inspiration and example must come from their instructors is evident. We have abundant proof that the men who have been great scientific discoverers have been those who have devoted themselves to the science for its own sake, never considering for a moment the material benefits that might result to them therefrom. They have been men who, like Agassiz, had no time to make money, or to patent or take advantage of their discoveries, which belong to the world. They have loved and worked for their science with the same fervor and enthusiasm that men fight for a country's cause. There is no one thing which, in the estimation of many, is at present exerting a more pernicious influence over chemical science in Germany than the fact that so many discoveries made by university instructors have been patented. The result is obvious; it tends to make men work, not for the cause of science, but for material objects, and the consequence must be, if persisted in, the loss of prestige that Germany has so long held in chemical science. The state, owing chiefly to the pioneer work of Liebig, has done much to foster the cause of chemical science by erecting and equipping magnificent laboratories for instruction and research. The men whose privilege it is to be connected with such laboratories, who hold life positions, and whose families, in case of death, are provided for by government pensions, surely have most ideal possibilities before them, and they can devote themselves, unhampered by cares, to the cause of science; and it is but just that the state, which has done so much for them, and not they, receive the benefit of any discoveries that may, by chance, turn out to be of practical value.

If the question were asked what factors are of importance in order that this country may in time do its share in advancing the cause of chemical science, or even, in time, take the lead over other nations in this subject, the answer would be that we must have, first of all, men whose heart and soul are in their work, and whose whole life and strength are devoted to the science purely for its own sake. The obstacles and difficulties to be overcome are tremendous, but no greater than those which the pioneers in the development of the material resources of the country have had to overcome. And who ever accomplished anything in the world without intense effort? The road to fame or fortune is alike beset with great difficul-

ties, and that man who is afraid of or appalled by difficulties is a weakling and does not see his opportunity.

It is very generally admitted that the one factor which has made the German university what it is to-day is its docent system. This system, briefly stated, is the following: A man, in order to become an instructor in the university, must, after he has taken the degree of doctor of philosophy, devote one or more years to independent investigation. The result of his work is presented in the form of a thesis, called "Habilitation-Schrift," which, if accepted, gives him the title of docent, and the right to offer lectures in the university. During the period in which the instructor remains docent, he receives no compensation from the university except such as he may draw from the attendance at his lectures, which is generally merely nominal; many of the docents lecture *publice* or gratis. A man may remain docent for many years, very often from four to eight years. His promotion depends chiefly on the quality and quantity of his investigations.

There are two universities in this country which have adopted the docent system, namely, Clark University and the University of Chicago. These require, however, of a candidate merely that he shall have the degree of doctor of philosophy, and not that he shall present a "Habilitation-Schrift." This is due simply to the exigency of the situation. Fifteen years ago it was exceedingly rare that men worked on in a university in this country, after receiving a bachelor's degree, except in the professional schools: law, medicine and theology.

To-day this is changed, but it is now very unusual for men with the degree of doctor of philosophy to work on independently. In order to encourage this, the University of Chicago has wisely adopted the docent system. The appointments are open to men having the above qualifications, and are annual appointments. The appointee has the opportunity to offer lectures in his chosen department, but his chief work is that of self-development and investigation. There is no one factor which compares with this docent system in importance, in the development of the future American university, and of great men who by their work will make Americans proud of their country. A man who presents a thesis for the degree of doctor of philosophy, whether here or in Germany, has his subject suggested to him by the instructor, and carries out the work generally under his guidance and instruction. He is not therefore entirely independent in his work, and has not yet developed a field of research work strictly his own. He is perhaps enthusiastic in his work, and sees possibilities before him. He is, in consequence, at the most critical and impor-

tant period of his life; and if an opportunity can be open to him to devote his main strength and energy, for some years to come, to scientific research and to self-development, it is a godsend to him who is really anxious and capable of doing something for science and his country.

During the last thirty years any number of young men have gone to Germany to study chemistry, and have come back with their doctor of philosophy degree. Why is it that so few of them have done anything for science since their return? The chief reason is, that they have gone into the work of teaching immediately. To be sure, if they cared to, many might have found time and opportunity for research; but, first of all, they found absolutely no sympathy, appreciation, or expectation for this kind of work, and were forced to stand entirely alone, and the difficulties in the way were enormous. And as their chief strength was devoted to teaching, and, above all, because they had not developed any field of research strictly their own before beginning their life work of instruction, they have lost their interest in the important matter of doing something for science.

What is the reason that many men have been and are still going to Germany to study chemistry? Simply in order to come in contact with and to receive instruction from men who have made the science of chemistry what it is to-day. To come in contact with a great man is a privilege never to be forgotten; he inspires both as a teacher and as an investigator. If we ever expect to check this exodus to Germany we must have our universities filled with men who are doing important work in advancing their subject. Men will go where there is life, activity, and enthusiasm; and nowhere is this more marked than in a productive chemical laboratory.

Supposing, for an instant, that these possibilities existed in this country, there are many reasons why incalculably more good can be done than by having our young men go abroad. The men in the universities here understand the conditions of education in the country more fully, and also, as a consequence, could appreciate and help those who come to them for instruction and research more fully than any other country can; and the most important point of all is that they could exert a stronger and much more direct influence by improving and inspiring the more elementary work in the high schools and colleges.

Finally, a word may be said as to the possibilities in science in the future, and the desirability of young men of energy and ability taking up work in it. No man need fear, as did Alexander the Great in his youth, that there will be no worlds left to conquer.

The possibilities in science and the resultant good to the world are beyond all imagination. This matter cannot be presented more forcibly and remarkably than has been done by Joseph Priestley, the father of the chemistry of gases, in 1774, in the following words :*

"If extensive and lasting fame be at all an object, literary, and especially scientific, pursuits are preferable to political ones in a variety of respects. The former are as much more favorable to the display of the human faculties than the latter, as the system of nature is superior to any political system upon earth.

"If extensive usefulness be the object, science has the same advantage over politics. The greatest success in the latter seldom extends farther than one country and one particular age ; whereas, a successful pursuit of science makes the man a benefactor of all mankind, and of every age. How trifling is the fame of any statesman that this country has ever produced, to that of Lord Bacon, of Newton, or of Boyle ; and how much greater are our obligations to such men as these, than to any other in the whole Biographia Britannica ; and every country in which science has flourished can furnish instances for similar observations."

He then quotes a passage from the letter of the not too enthusiastic philosopher, Beccaria, of Turin, who writes : "I am sorry that the *political world*, which is so very transitory, should take the great Franklin from the *world of nature*, which can never change nor fail."

"I own," says Priestley, "it is with peculiar pleasure that I quote this passage respecting this truly great man, at a time when some of the infatuated politicians of this country are vainly thinking to build their wretched and destructive projects on the ruins of his established reputation ; a reputation as extensive as the spread of science itself, and of which it is saying very little indeed to pronounce that it will last and flourish when the names of all his enemies shall be forgotten."

That these predictions have proved true has long ago been evident. America honored and remembered one of its great men, Benjamin Franklin, at the Columbian Exposition, by placing his statue before the Electricity Building, chiefly because of his achievements in physical science.

MEETING OF TEACHERS OF CHEMISTRY.

KENT CHEMICAL LABORATORY,

JANUARY 1, AT 2:30 P.M.; AND JANUARY 2, AT 9:30 A.M.

In response to the invitation of President Harper, a meeting of teachers of Chemistry was held in Kent Theatre on January 1, at 2:30 p.m., for the purpose of discussing the teaching of Chemistry in High Schools and Colleges. President Harper welcomed the assembled chemists on behalf of the University, and invited Professor Ira Remsen, of the Johns Hopkins University, to preside. Professor Remsen expressed his sympathy with the object of the meeting, believing that frequent gatherings of this kind must be productive of much good. He then introduced Professor P. C. Freer, of the University of Michigan, who opened the discussion by reading a paper on "The Teaching of Chemistry." Professor Freer said that school boards must be made to recognize the necessity of having chemistry taught in secondary schools by qualified men who have received special training. Good apparatus and good chemicals must be provided. Poor apparatus often fails to work, and the student thinks that the result of an experiment is largely a matter of accident. A training with poor material is

worse than none at all. Facts must be sought first, and theory not introduced until it is absolutely necessary. No attempt should be made to cover the entire field of chemistry, but a few things only should be taken up and treated thoroughly. In the college the student should first be given a thorough course in general inorganic chemistry, and only after completing this course, including lecture-room and laboratory work, should he take up analytical chemistry. The necessity of careful observation and of accurate manipulation must be early impressed. The student must be carefully watched and guided in the laboratory, and not left to his own devices. Some quantitative work may be introduced into qualitative analysis. Laboratory work in organic chemistry should be taken up after quantitative analysis, and when the student is not hampered by other laboratory work. At the same time lectures may be given in theoretical and physical chemistry. Above all, the student must learn to think for himself and to rely upon himself.

In the discussion that followed, remarks were made by many of the chemists present. At 4:30 p.m. the

* Priestley, *On Air*, Vol. I., p. 16-18.

meeting adjourned, though all felt that the time had been too short to discuss even a small fraction of the questions involved.

During the dinner in the evening it was decided to form an Association of teachers of chemistry, for the discussion of methods of teaching the science. A committee of organization, with Professor Prescott as chairman, was appointed and reported at a meeting held in Kent Theatre the following morning. Professor Daniels acted as chairman, Professor Noyes as secretary.

The report was as follows :

Resolved, 1. That a conference of teachers of chemistry be held once a year, or as determined by the conference, for the discussion of methods of teaching.

2. That a committee of arrangements consisting of three members, be elected at each meeting for the following year, the chairman of the committee to act as secretary of the conference.

3. That the conference determine the place and time of the next meeting and that further arrangements be made by the committee, who shall send notices and invitations by mail.

The conference decided to meet next year at the University of Chicago about January 1, and elected Professors Nef, Baker and Freer as the committee of arrangements.

The following were present :

L. E. Akeley, of the University of South Dakota.
 D. Anderson, of the University of Michigan.
 L. Andrews, of the University of Iowa.
 P. S. Baker, of De Pauw University.
 J. H. Breeze, of Northern Illinois College.
 C. S. Burroughs, of Wabash College.
 T. P. Carter, of Jacksonville College.
 R. Cornish, of Morgan Park Academy.
 W. W. Daniels, of the University of Wisconsin.
 W. L. Dudley, of Vanderbilt University.
 W. F. Edwards, of the University of Michigan.
 D. Fall, of Albion College.
 J. C. Foye, of Armour Institute.
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VEBLEN, THORSTEIN B., <i>Reader.</i> (C. 2-8)	5726 Drexel av.	WILKINSON, WILLIAM CLEAVER, <i>Prof.</i> (K.)	5835 Drexel av.
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VOTAW, CLYDE WEBER, <i>Docent.</i> (D. 10-12)	Hotel Barry, 59th st. and Washington av.	WILLIAMS, WARDNER, <i>Reader.</i>	5812½ Drexel av.
WAIT, W. W., <i>Trustee.</i>	124 Washington Boulevard.	WISHART, A. W., <i>Lecturer.</i> (A. 5)	5825 Kimbark av.
WALCOTT, CHARLES DOOLITTLE, <i>Prof.</i> (W.)	Washington, D. C.	WOLD, THORE OLSEN, <i>Instr.</i>	Morgan Park.
WALKER, ARTHUR TAPPAN, <i>Fel.</i>	31 G.	WOOD, F. A., <i>Fel.</i>	Hotel Preston.
WALKER, DEAN AUGUSTUS, <i>Fel.</i>	18 G.	WOOD, ROBERT WILLIAM, <i>Hon. Fel.</i>	5237 Jefferson av.
WALKER, GEORGE C., <i>Trustee.</i>	567 The Rookery; 228 Michigan av.	WOODRUFF, CHARLES E., <i>Fel.</i>	146 D.
WALLACE, ELIZABETH, <i>Docent.</i> (B. 12-16)	7 and 8 B.	YOUNG, J. W. A., <i>Tutor.</i> (R.)	5758 Washington av.
WALLIN, MADELEINE, <i>Fel.</i>	32 B.	ZEUBLIN, CHARLES, <i>Instr.</i> (A. 5).	5134 Wabash av.

* On leave of absence.

CLASSIFICATION AND DIRECTORY OF STUDENTS IN ATTENDANCE,
WINTER QUARTER, 1894.

ABBREVIATIONS.

ABBREVIATIONS: B.=Beecher Hall; D.=Divinity Dormitory; F.=Nancy Foster Hall; G.=Graduate Dormitory; Kl.=Kelly Hall; Sn.=Snell Hall.

Numerals prefixed to these abbreviations designate the number of room or rooms in particular Halls.

The numerals which follow the names of the departments indicate the number of quarters during which the Student has been in residence at the University of Chicago.

THE GRADUATE SCHOOL OF ARTS AND LITERATURE.

NAME.	DEGREE; DEPT. OF STUDY; RESIDENCE.	HOME ADDRESS.	PRESENT ADDRESS.
Alden, George Henry,	S.B. (<i>Carleton College</i>) '91; A.B. (<i>Harvard College</i>) '93. History, Political Science. 1.	<i>Waseca, Minn.</i>	5709 Drexel av.
Archibald, William Laird,	A.B. (<i>Acadia University</i>) '92. Semitic, History. 4.	<i>Wolfville, N. S.</i>	539, 55th st.
Atkinson, David Clarence,	A.B. (<i>University of Indiana</i>) '93. Social Science. 1.	<i>Atkinson, Ind.</i>	5656 Washington av.
Baker, Ethel,	Ph.B. (<i>Northwestern Univ.</i>) '93. Philosophy, Neurology. 4.	<i>Chicago.</i>	3543 Lake av.
Barrett, Don Carlos,	A.B. (<i>Earlham College</i>) '89; A.M. (<i>Ibid.</i>) '93. Political Economy, History, Political Science. 1.	<i>Richmond, Ind.</i>	5754 Washington av.
Barrett, Marcia Frances,	S.B. (<i>Earlham College</i>) '89. English, History. 1.	<i>Richmond, Ind.</i>	5754 Washington av.
Berry, George Ricker,	A.B. (<i>Colby University</i>) '85; A.M. (<i>Ibid.</i>) '88. Semitic. 4.	<i>West Sumner, Me.</i>	878, 35th st.
Blaine, Harriet Gertrude,	A.B. (<i>Oberlin College</i>) '90. Greek, Latin. 1.	<i>Oberlin, O.</i>	39 F.
Blakely, William Addison,	Ph.B. (<i>Healdsburg College</i>) '86; Ph.D., '90; LL.B. (<i>University of Michigan</i>) '91; Political Science, History. 1.	<i>Chicago.</i>	5550 Drexel av.
Bowen, Mary,	Ph.B. (<i>Iowa College</i>) '93. English. 1.	<i>Centerville, Ia.</i>	14 F.
Boyd, Charles Samuel,	S.B. (<i>Lawrence University</i>) '93. Social Science, Political Economy. 1.	<i>Appleton, Wis.</i>	32 G.
Brainard, Harriet T.,	Ph.B. (<i>Cornell University</i>) '76. English, Philosophy. 2.	<i>Chicago.</i>	1301 Wabash av.
Bray, Jeremiah Wesley,	A.B. (<i>University of Indiana</i>) '91; A.M. (<i>Ibid.</i>) '92. English, Philosophy, Comparative Philology. 1.	<i>Chicago.</i>	5709 Drexel av.
Brown, Frances Chamberlain,	A.B. (<i>Smith College</i>) '82; A.M. (<i>Ibid.</i>) '85. Political Science, Political Economy. 4.	<i>Winchester.</i>	8 B.
Buckley, Edmund,	A.M. (<i>University of Michigan</i>) '84. Comparative Religion. 1.	<i>Rochester, N. Y.</i>	218, 55th st.
Carpenter, Frederic Ives,	A.B. (<i>Harvard University</i>) '85. English, Comparative Literature. 4.	<i>Chicago.</i>	5515 Woodlawn av.
Carpenter, Nancy Jennette,	A.B. (<i>Cornell College</i>) '85; A.M. (<i>Ibid.</i>) '88. English. 2.	<i>Missouri Valley, Ia.</i>	5604 Monroe av.
Carrier, Augustus Stiles,	A.B. (<i>Yale University</i>) '79. Semitic. 4.	<i>Chicago.</i>	1042 N. Halsted st.
Cary, Antoinette,	S.B. (<i>University of Chicago</i>) '93. Social Science. 1.	<i>Elyria, O.</i>	5 Kl.
Catterall, Ralph C. H.,	A.B. (<i>Bucknell University</i>) '91, (<i>Harvard University</i>) '92. History, Political Economy. 3.	<i>Watsontown, Pa.</i>	Harcourt, cor. 57th & Madison av.
Chase, Cleveland King,	A.B. (<i>Fisk University</i>) '90; A.B. (<i>Oberlin College</i>) '91. Latin, Greek. 1.	<i>Nashville, Tenn.</i>	5614 Drexel av.
Clark, Hannah Belle,	A.B. (<i>Smith College</i>) '87. Social Science, History. 4.	<i>Chicago.</i>	5312 Madison av.

NAME.	DEGREE; DEPT. OF STUDY; RESIDENCE.	HOME ADDRESS.	PRESENT ADDRESS.
Conger, Charles J.,	A.B. (<i>University of Minnesota</i>) '90. Geography, Political Science. 2.	<i>Minneapolis, Minn.</i>	21 G.
Crandall, Regina Katherine,	A.B. (<i>Smith College</i>) '90. History. 1.	<i>Brooklyn, N. Y.</i>	48 B.
Crotty, Millia Alice,	A.B. (<i>University of Kansas</i>) '92. English. 1.	<i>Burlington, Kans.</i>	36 B.
Cummings, John,	A.B. (<i>Harvard College</i>) '91; A.M. (<i>Ibid.</i>) '92. Political Economy, Social Science. 1.	<i>Lynn, Mass.</i>	30 G.
Cutler, Susan Rhoda,	A.B. (<i>Western Reserve University</i>) '85. Romance. 4.	<i>Talladega, Ala.</i>	21 B.
Danforth, Lucia Elizabeth,	L.B. (<i>Carleton College</i>) '88. Latin. 1.	<i>Red Wing, Minn.</i>	20 F.
Davies, Anna Freeman,	A.B. (<i>Lake Forest University</i>) '89; A.M. (<i>Ibid.</i>) '91. Social Science, History. 1.	<i>Lake Forest.</i>	214, 53d st.
Davies, Martha Blanche,	A.B. (<i>University of Omaha</i>) '92. Latin, Greek. 1.	<i>Menlo, Ia.</i>	Morgan Park.
Davis, Walter Scott,	A.B. (<i>DePauw University</i>) '89; A.M. (<i>Cornell University</i>) '92. History. 4.	<i>North Salem, Ind.</i>	Inverness, 56th st. and Drexel av.
Dickie, Henry,	A.B. (<i>Dalhousie College</i>) '83; (<i>Princeton Theological Seminary</i>) '86. Semitic. 1.	<i>Summerside, P. E. Island, Can.</i>	19 G.
Dodge, Ernest Green,	A.B. (<i>Berea College</i>) '93. Greek, English. 1.	<i>Berea, Ky.</i>	5737 Kimbark av.
Dorman, John Benjamin,	A.B. (<i>Clinton Academy</i>) '85; S.B. (<i>Missouri University</i>) '91; Ph.B. (<i>Ibid.</i>) Political Science, Political Economy, History. 1.	<i>Clinton, Mo.</i>	5558 Drexel av.
Dunn, Arthur William,	A.B. (<i>Knox College</i>) '93. Social Science, History. 1.	<i>Galesburg.</i>	5800 Jackson av.
Durbin, Eva Comstock,	S.B. (<i>Hillsdale College</i>) '75; S.M. (<i>Ibid.</i>) '78. History, English Literature. 1.	<i>Chicago.</i>	3510 Prairie av.
Dye, Charles Hutchinson,	Ph.B. (<i>Westeyan</i>) '84. Social Science, Political Science.	<i>Ft. Madison, Iowa.</i>	4851 Drexel av.
Edwards, Thomas Alpheus,	A.B. (<i>Allegheny College</i>) '86; A.M. (<i>Ibid.</i>) '89. Latin, Greek.	<i>Sharon, Pa.</i>	30 G.
Ely, Elizabeth Antoinette,	A.B. (<i>University of Cincinnati</i>) '87; A.M. (<i>Ibid.</i>) '92. Latin, Greek. 4.	<i>Cincinnati, O.</i>	9 Kl.
Emery, Vernon Judson,	A.B. (<i>Ohio State University</i>) '87; A.M. (<i>University of Nebraska</i>) '90. Latin. 1.	<i>Napoleon, O.</i>	438, 57th st.
Fairfield, George Day,	A.B. (<i>Oberlin College</i>) '88. Romance. 1.	<i>Chicago.</i>	Keene Hotel, 55th st. and Ellis av.
Farr, Mary Edith,	A.B. (<i>Colby University</i>) '88. History. 1.	<i>Waterville, Me.</i>	42 B.
Faulkner, Elizabeth,	A.B. (<i>Old University of Chicago</i>) '85. Latin. 1.	<i>Chicago.</i>	98 Oakwood av.
Fertig, James Walter,	A.B. (<i>University of Nashville</i>) '90; A.M. (<i>Ibid.</i>) '91. History, Political Economy, Political Science. 1.	<i>Nashville, Tenn.</i>	6226 Woodlawn av.
Fowler, Frank Hamilton,	A.B. (<i>Lombard University</i>) '90. Sanskrit, Comparative Philology, Latin. 4.	<i>Bradford.</i>	5810 Drexel av.
France, Wilmer Cave,	A.B. (<i>Cambridge University, England</i>) '92. Latin, Greek. 1.	<i>Tysby, Warwickshire, Eng.</i>	5740 Monroe av.
French, Charles Wallace,	A.B. (<i>Dartmouth College</i>) '79; A.M. (<i>Ibid.</i>) '82. History, Philosophy. 1.	<i>Hyde Park.</i>	5735 Washington av.
Fulcomer, Daniel,	A.B. (<i>Western College</i>) '84; A.M. (<i>Ibid.</i>) '88. Social Science, Philosophy. 1.	<i>Grand Rapids, Mich.</i>	27 Sn.
Gilbert, Emma Large,	A.B. (<i>Cornell University</i>) '90. Latin, Greek. 1.	<i>Holicong, Pa.</i>	27 B.
Goodspeed, Edgar Johnson,	A.B. (<i>Denison University</i>) '90. Semitic, New Testament Greek. 4.	<i>Chicago.</i>	5630 Kimbark av.
Gordon, William Clark,	A.B. (<i>Yale University</i>) '88; B.D. (<i>Ibid.</i>) '91. Social Science, Eng. Literature. 1.	<i>Michigan City, Ind.</i>	Michigan City, Ind.
Gow, John Russell,	A.B. (<i>Brown University</i>) '77; D.B. (<i>Newton Theological Institution</i>) '82. Social Science. 4.	<i>Chicago.</i>	275, 52d st.
Grant, George Kuhn,	A.B. (<i>Ottawa University</i>) '91. English. 1.	<i>Ottawa, Kans.</i>	56 Sn.
Grant, Laura Churchill,	A.B. (<i>Vassar College</i>) '92. Political Economy, Polit. Science. 1.	<i>St. Paul, Minn.</i>	12 F.
Hardy, Sarah McLean,	Ph.B. (<i>University of California</i>) '93. Political Economy. 1.	<i>Berkeley, Cal.</i>	37 F.

THE QUARTERLY CALENDAR.

NAME.	DEGREE; DEPT. OF STUDY; RESIDENCE.	HOME ADDRESS.	PRESENT ADDRESS.
Harley, Walter Scott,	A.B. (<i>Bucknell University</i>) '87; A.M. (<i>Ibid.</i>) '90. Latin, Greek. 4.	<i>Germantown, Pa.</i>	55th st. and Ellis av.
Harris, Laura Matthews,	A.B. (<i>Vassar College</i>) '90. English, History. 1.	<i>Chicago.</i>	Virginia Hotel.
Hastings, Charles Harris,	A.B. (<i>Bowdoin College</i>) '91. History, Social Science. 1.	<i>Bethel, Me.</i>	32 G.
Henry, William Elmer,	A.B. (<i>University of Indiana</i>) '91; A.M. (<i>Ibid.</i>) '92. English, Philosophy. 1.	<i>Greentown, Ind.</i>	5558 Drexel av.
Herron, Belva Mary,	L.B. (<i>University of Michigan</i>) '89. Political Economy. 4.	<i>St. Louis, Mo.</i>	4 B.
Heyland, Thomas Western,	A.B. (<i>University of North Dakota</i>) '91. Systematic Theology, Social Science. 8.	<i>Pavilion, Ill.</i>	578, 60th st.
Hilliard, Caroline Margaret,	M.L.A. (<i>Ohio Wesleyan University</i>) '76. English. 1.	<i>Peoria.</i>	4525 Oakenwald av.
Hinckley, Frank Erastus,	A.B. (<i>Beloit College</i>) '92. History. 2.	<i>Racine, Wis.</i>	3316 Dearborn st.
Holcomb, George Perry,	A.B. (<i>University of Rochester</i>) '89. Biblical Theology, Social Science. 4.	<i>Rochester, N. Y.</i>	75 D.
Hourwich, Isaac A.,	(<i>Gymnasium. Minsk, Russia</i>) '77; Ph.D. (<i>Columbia College</i>) '93. Political Economy.	<i>Chicago.</i>	1330 Unity Building.
Howerth, Ira Woods,	A.B. (<i>Harvard University</i>) '93. Social Science. 1.	<i>Columbus, Ind.</i>	5709 Drexel av.
Hoxie, Robert Franklin,	Ph.B. (<i>University of Chicago</i>) '93. Political Economy, Political Science, History. 1.	<i>Yorkville, N. Y.</i>	5724 Drexel av.
Hunter, George Leland,	A.B. (<i>Harvard University</i>) '89. Comparative Literature, History. 3.	<i>Hopkinton, Mass.</i>	Hotel Barry, 59th st. and Madison av.
Innes, Stephen Linnard,	A.B. (<i>University of Pennsylvania</i>) Biblical Greek. 1.	<i>Philadelphia, Pa.</i>	26 G.
Irvine, William Franklin,	A.B. (<i>University of Manitoba</i>) '91. Systematic Theology, Social Science. 8.	<i>Yorkville, Ill.</i>	137 D.
Jackson, Grace,	A.B. (<i>Wellesley College</i>) '91. Latin, Greek. 4.	<i>Ft. Wayne, Ind.</i>	15 F.
Johnson, Luther Apelles,	A.M. (<i>Trinity University</i>) '86; Ph.D. (<i>Bethel College</i>) '89. English. 1.	<i>Tehuacana, Texas.</i>	Hotel Barry, 59th st. and Madison av.
Johnston, William Dawson,	A.B. (<i>Brown University</i>) '93. Social Science. 1.	<i>Kalamazoo, Mich.</i>	4655 Gross av.
Jones, Florence Nightingale,	A.B. (<i>Oberlin College</i>) '83; A.M. (<i>State University of Nebraska</i>) '91. Comparative Philology, Latin. 4.	<i>Lincoln, Neb.</i>	3715 Langley av.
Jones, Jessie Louise,	A.B. (<i>Doane College</i>) '84. German, Sanskrit. 1.	<i>Lincoln, Neb.</i>	3715 Langley av.
Jones, Laura Amelia,	A.B. (<i>Wellesley College</i>) '82; A.M. (<i>Ibid.</i>) '91. Semitic, History. 4.	<i>East Orange, N. J.</i>	2 F.
Jude, George Washington,	A.B. (<i>Otterbein University</i>) '91. History, Political Economy. 4.	<i>Sugar Grove, Pa.</i>	623, 55th st.
Kern, Paul Oscar,	(<i>Berlin University, Germany</i>) German, Romance. 1.	<i>Chicago.</i>	5442 Monroe av.
Kirkpatrick, George Ross,	A.B. (<i>Albion College</i>) '93. Social Science. 1.	<i>Plainfield, O.</i>	5800 Jackson av.
Knox, Frances Ada,	A.B. (<i>University of Michigan</i>) '82. History, Political Science. 1.	<i>Salem, Oregon.</i>	5755 Rosalie Court.
Korsmeyer, Julia Maria,	A.B. (<i>University of Nebraska</i>) '93. French, German. 1.	<i>Lincoln, Neb.</i>	3715 Langley av.
Lathe, Agnes M.,	A.B. (<i>Smith College</i>) '81. English. 2.	<i>Worcester, Mass.</i>	38 Kl.
Learned, Henry Barrett,	A.B. (<i>Harvard University</i>) '90. Political Economy, Social Science. 1.	<i>St. Louis, Mo.</i>	4 G.
Lewis, Edwin Herbert,	A.B. (<i>Alfred University</i>) '87; Ph.D. (<i>Syracuse University</i>) '92. English, Greek. 4.	<i>Chicago.</i>	6126 Wharton av.
Linscott, Henry Farrar,	A.B. (<i>Bowdoin College</i>) '92. Comparative Philology, Latin. 4.	<i>Chicago.</i>	4000 Drexel boul.
Love, Mary Edith,	Ph.B. (<i>Cornell College</i>) '91. English. 1.	<i>Marion, Ia.</i>	8 F.
MacLean, Murdoch Haddon,	A.B. (<i>Acadia College</i>) '92. History, English. 1.	<i>Wolfville, N. S.</i>	539, 55th st,
Maddocks, Caroline Shaw,	A.B. (<i>Wellesley College</i>) '92. English. 2.	<i>Chicago.</i>	5622 Ellis av.
Mallory, Hervey Foster,	A.B. (<i>Colgate University</i>) '90. Semitic. 4.	<i>Aberdeen, S. Dak.</i>	Keene Hotel.

NAME.	DEGREE; DEPT. OF STUDY; RESIDENCE.	HOME ADDRESS.	PRESENT ADDRESS.
Manchester, Herbert,	A.B. (<i>University of Chicago</i>) '93. Philosophy. 1.	<i>Gray's Lake.</i>	U. of C. Weekly office.
Markham, Osman Grant,	A.B. (<i>Baldwin University</i>) '86; A.M. (<i>Ibid.</i>) '89. Latin. 1.	<i>Baldwin, Kans.</i>	Keene Hotel.
McCasky, Harriet Louise,	A.B. (<i>Northwestern University</i>) '92. History, English. 1.	<i>Chicago.</i>	35 B.
Mead, Eugene Adelbert,	Ph.B. (<i>Denison University</i>) '87; Ph.M. (<i>Ibid.</i>) '90. Social Science, Political Science. 1.	<i>Chicago.</i>	438, 57th st.
Mezes, Sidney E.,	A.B. (<i>Harvard University</i>) '90; Ph.D. (<i>Ibid.</i>) '93. Philosophy. 1.	<i>Chicago.</i>	Hotel Barry, 59th st. and Washington av.
Miller, Roy Newman,	Ph.B. (<i>Abion College</i>) '93. Polit. Science, History, English. 1.	<i>Mason, Mich.</i>	5802 Jackson av.
Millerd, Clara Elizabeth,	A.B. (<i>Iowa College</i>) '93. Greek, Latin. 1.	<i>Chicago.</i>	1151 Lawndale av.
Milliman, Loren Douglas,	A.B. (<i>University of Michigan</i>) '90. English, Philosophy. 4.	<i>Lakeville, N. Y.</i>	Keene Hotel, 55th st.
Million, John Wilson,	A.B. (<i>Wm. Jewell College</i>) '89; A.M. (<i>Ibid.</i>) '91. Political Economy, History. 4.	<i>Watson, Mo.</i>	5126 Madison av.
Mitchell, Walter Reynolds,	S.B. (<i>University of Illinois</i>) '87. Zoölogy. 1.	<i>Englewood.</i>	429, 57th st.
Mosley, Joel Rufus,	S.B. (<i>University of Nashville</i>) '92; S.M. (<i>Ibid.</i>) '93. Political Science, History. 1.	<i>Elkin, N. C.</i>	6226 Woodlawn av.
Mühlhæuser, Otto,	Ph.D. (<i>Zürich University</i>) '80. English. 1.	<i>Stuttgart, Germany.</i>	102 D.
Mulfinger, George,	A.B. (<i>Northwestern University</i>) '85. German, English. 1.	<i>Chicago.</i>	108 Seeley av.
Neff, Theodore Lee,	Ph.B. (<i>Asbury (now DePauw) University</i>) '83; A.M. (<i>DePauw University</i>) '86. Romance Languages. 1.	<i>Iowa City, Ia.</i>	541, 55th st.
Northup, John Eldredge,	A.B. (<i>Drake University</i>) '91. Political Economy, Social Science. 3.	<i>Newton, Ia.</i>	5724 Drexel av.
Norton, Adda Frances,	A.B. (<i>Des Moines College</i>) '93. Latin, Greek. 1.	<i>Chicago.</i>	4336 Union av.
Ogden, Howard Newton,	A.B. (<i>University of W. Virginia</i>) '81; A.M. (<i>Ibid.</i>) '84; A.M. (<i>Marietta College</i>) '93. English, History. 1.	<i>Morgantown, W. Va.</i>	6017 Ellis av.
Osborn, Loran David,	A.B. (<i>University of Michigan</i>) '91. Systematic Theology, Social Science. 8.	<i>Grand Rapids, Mich.</i>	76 D.
Owen, Ernest Jones,	A.B. (<i>Denison University</i>) '93. New Testament Greek. 1.	<i>Newark, O.</i>	Omaha Bldg., 55th st. and Lexington av.
Owen, William Bishop,	A.B. (<i>Denison University</i>) '87; D.B. (<i>Baptist Union Theological Seminary</i>) '91. Comparative Philology, Greek. 4.	<i>Chicago.</i>	5475 Kimbark av.
Page, Edward Carlton,	A.B. (<i>Northwestern University</i>) '88. History, English. 1.	<i>Mt. Morris.</i>	405 E. 40th st.
Paschal, George Washington,	A.B. (<i>Wake Forest College</i>). Greek, Latin. 1.	<i>Siler City, N. C.</i>	43 Sn.
Pellett, Sarah Frances,	A.B. (<i>Smith College</i>) '82; A.M. (<i>Cornell University</i>) '91. Latin, Greek. 4.	<i>Binghamton, N. Y.</i>	9 Kl.
Perrine, Cora Belie.	A.B. (<i>Wellesley College</i>) '91. Romance Languages. 1.	<i>Centralia, Ill.</i>	5622 Ellis av.
Pike, Granville Ross,	A.B. (<i>Hamilton College</i>) '80; A.M. (<i>Ibid.</i>) '83. Philosophy. 1.	<i>Chicago.</i>	6716 Union av., Englewood.
Pomerine, Jennie,	A.B. (<i>Vassar College</i>) '86. English.	<i>Poughkeepsie, N. Y.</i>	The Auditorium.
Potter, Erastus Francis,	A.B. (<i>University of Michigan</i>). Latin, Greek. 1.	<i>Tecumseh, Mich.</i>	5558 Drexel av.
Poyen-Bellisle, René de,	L.B. (<i>University of France</i>) '74. Romance. 1.	<i>Mt. Washington, Md.</i>	391, 57th st.
Putnam, Edward Kirby,	A.B. (<i>Illinois College</i>) '91. English, Social Science. 1.	<i>Chicago,</i>	355 E. 41st st.
Read, Eliphalet Allison,	A.B. (<i>University of Acadia</i>) '91. Systematic Theology, Social Science. 8.	<i>Berwick, Nova Scotia.</i>	128 D.
Reese, Elizabeth Irene,	A.B. (<i>Western Maryland College</i>) '93. Romance, German. 1.	<i>Westminster, Md.</i>	5515 Woodlawn av.
Reynolds, Myra,	A.B. (<i>Vassar College</i>) '80; A.M. (<i>Ibid.</i>) '92. English, Greek. 4.	<i>Pueblo, Col.</i>	F.
Rogers, Arthur Kenyon,	A.B. (<i>Colby University</i>) '91. New Testament Literature, Philosophy. 4.	<i>Waterville, Me.</i>	299 S. Oakley av.

THE QUARTERLY CALENDAR.

NAME.	DEGREE ; DEPT. OF STUDY ; RESIDENCE.	NOME ADDRESS.	PRESENT ADDRESS.
Rullkoetter, William,	A.B. (<i>University of Chicago</i>) '93. History, Political Science. 1.	<i>Hastings, Neb.</i>	58 Sn.
Sanders, Frederic William,	A.B. (<i>Columbia College</i>) '83; A.M. (<i>Harvard University</i>) '92. Social Science, Philosophy. 1.	<i>Chicago.</i>	4 G.
Scotfield, Cora Louise,	A.B. (<i>Vassar College</i>) '90. History. 1.	<i>Washington, Ia.</i>	35 B.
Shaw, Edwin,	A.B. (<i>Milton College</i>) '88; A.M. (<i>Ibid.</i>) '91. Latin, History. 1.	<i>Milton, Wis.</i>	5455 Monroe av.
Shepardson, Francis Wayland,	A.B. (<i>Brown University</i>) '83; Ph.D. (<i>Yale University</i>) '92. History.	<i>Chicago.</i>	5475 Kimbark av.
Sherman, Zillah Maria,	A.B. (<i>Wells College</i>) '82. English, Philosophy. 1.	<i>Ashtabula, O.</i>	31 F.
Sikes, George Cushing,	S.B. (<i>University of Minnesota</i>) '92. Political Economy, Political Science. 1.	<i>Minneapolis, Minn.</i>	5622 Ellis av.
Sinclair, James Grundy,	M.D. (<i>College of Physicians and Surgeons</i>) '88; A.B. (<i>Northwestern University</i>) '92. Political Economy, Physiology. 2.	<i>Chicago.</i>	4101 Grand Boul.
Sisson, Edward Octavius,	A.B. (<i>University of Chicago</i>) '93. Greek. 1.	<i>Newcastle-on-Tyne, England.</i>	5442 Drexel av.
Smith, Emily James,	A.B. (<i>Bryn Mawr College</i>) '89. Greek, Latin. 1.	<i>Canandaigua, N. Y.</i>	5740 Monroe av.
Smith, Martha Constance,	Ph.B. (<i>Northwestern University</i>) '92. English, Latin. 1.	<i>Evanston.</i>	22 B.
Smith, Ralph Parsons,	Ph.B. (<i>Denison University</i>) '88. German. 8.	<i>Chicago.</i>	5620 Ellis av.
Snoddy, James Samuel,	L.B. (<i>University of Missouri</i>) '83. English. 1.	<i>Kansas City, Mo.</i>	5612 Drexel av.
Soares, Theodoro Geraldo,	A.B. (<i>University of Minnesota</i>) '91; A.M. (<i>Ibid.</i>) '92. History, Greek. 4.	<i>Minneapolis, Minn.</i>	24 G.
Spencer, Charles Worthen,	A.B. (<i>Colby University</i>) '90. Social Science, History. 4.	<i>Waterville, Me.</i>	5620 Ellis av.
Squires, Vernon Purinton,	A.B. (<i>Brown University</i>) '89. English, Philosophy. 1.	<i>Oneonta, N. Y.</i>	14 G.
Stanton, Eveline Judith,	Ph.B. (<i>Bushnell University</i>) '90. English. 1.	<i>Chinchilla, Pa.</i>	38 B.
Start, Cora Angelina,	A.B. (<i>Vassar College</i>) '90; A.M. (<i>Ibid.</i>) '92. History, Political Science. 1.	<i>Worcester, Mass.</i>	36 Kl.
Stowe, Frederick Arthur,	Ph.B. (<i>Iowa State University</i>) '92. Political Economy, Political Science. 3.	<i>Chicago.</i>	6017 Ellis av.
Thomas, William Isaac,	A.B. (<i>University of Tennessee</i>) '84; A.M. (<i>Ibid.</i>) '85; Ph.D. (<i>Ibid.</i>) '86. Social Science. 1.	<i>Oberlin, O.</i>	6420 Lexington av.
Thompson, James Westfall,	A.B. (<i>Rutgers College</i>) '92. History, Political Science. 4.	<i>New Brunswick, N.J.</i>	5620 Ellis av.
Thurston, Henry Winfred,	A.B. (<i>Dartmouth College</i>) '86. Social Science, Political Economy. 1.	<i>La Grange.</i>	Englewood High School.
Tompkins, Arnold,	A.M. (<i>University of Indiana</i>). Philosophy. 1.	<i>Terre Haute, Ind.</i>	Auburn Park.
Topping, Henry,	A.B. (<i>University of Rochester</i>) '92; B.D. (<i>Baptist Union Theological Seminary</i>) '92. Old Testament, New Testament. 1.	<i>Columbia, S. C.</i>	Columbia, S. C.
Triggs, Oscar L.,	A.B. (<i>University of Minnesota</i>) '89; A.M. (<i>Ibid.</i>) '93. English. 4.	<i>Chicago.</i>	21 G.
Tunell, George,	S.B. (<i>University of Minnesota</i>) '92. Political Science, Political Economy. 4.	<i>Albert Lea, Minn.</i>	24 G.
Tunnicliff, Helen Honor,	A.B. (<i>Vassar College</i>) '89. Political Science. 1.	<i>Macomb, Ill.</i>	5 B.
Van der Ploeg, Henry,	A.B. (<i>Hope College</i>) '93. History. 1.	<i>Holland, Mich.</i>	3 Sn.
Vincent, George Edgar,	A.B. (<i>Yale University</i>) '85. Social Science, History. 1.	<i>Buffalo, N. Y.</i>	5338 Washington av.
Votaw, Clyde Weber,	A.B. (<i>Amherst College</i>) '88; A.M. (<i>Ibid.</i>) '92. Biblical and Patristic Greek.	<i>Chicago.</i>	Hotel Barry, 59th st. and Washington av.
Waldo, Wilbur Albergince,	B.Th. (<i>Baptist Union Theological Seminary</i>) '92; Ph.B. (<i>Des Moines College</i>) '93. Systematic Theology. 4.	<i>Drayton, N. D.</i>	Fernwood, Ill.
Walker, Arthur Tappan,	A.B. (<i>University of the City of New York</i>) '87; A.M. (<i>Vanderbilt University</i>) '92. Latin, Greek, Comparative Philology. 1.	<i>New York City.</i>	31 G.
Walker, Dean Augustus,	A.B. (<i>Yale University</i>) '84; D.B. (<i>Ibid.</i>) '89; A.M. (<i>Ibid.</i>) '90. Semitic. 1.	<i>Auburndale, Mass.</i>	18 G.

NAME.	DEGREE ; DEPT. OF STUDY ; RESIDENCE.	HOME ADDRESS.	PRESENT ADDRESS.
Wallace, Elizabeth,	S.B. (<i>Wellesley College</i>) '86. Political Science, Romance. 4.	<i>Minneapolis, Minn.</i>	7 and 8 B.
Wallin, Madeleine,	L.B. (<i>University of Minnesota</i>) '92; Ph.M. (<i>University of Chicago</i>) '93. Political Science, History. 4.	<i>Fargo, N. Dak.</i>	32 B.
Ward, Henry Winfield,	S.B. (<i>Hartsville College</i>) '86; A.B. (<i>Western College</i>) '88; A.M. (<i>Ibid.</i>) '91. Latin, Greek. 1.	<i>Sparta, Mich.</i>	5558 Drexel av.
Ware, Richard,	L.B. (<i>Columbian University</i>) '90. Political Economy, History. 1.	<i>Washington, D. C.</i>	5515 Woodlawn av.
Wasson, Van Rensselaer,	A.B. (<i>Union Christian College</i>) '87; A.M. (<i>Ibid.</i>) '90. Latin, Greek. 1.	<i>Sullivan, Ind.</i>	438, 57th st.
Weatherlow, Jane Knight,	A.B. (<i>Wellesley College</i>) English, Philosophy. 1.	<i>Seneca Falls, N.Y.</i>	47 F.
Webster, William Clarence,	A.B. (<i>Albion College</i>) '87, History, Political Science. 4.	<i>Chicago.</i>	5722 Kimbark av.
West, Max,	B.S. (<i>University of Minnesota</i>) '90; A.M. (<i>Columbia College</i>) '92; Ph.D. (<i>Columbia College</i>) '93. Political Economy, Social Science. 1.	<i>Chicago.</i>	University settlement, 4655 Gross av.
Whaley, John Byrd,	A.B. (<i>Western Maryland College</i>) '89. Semitic. 4.	<i>Plymouth, N. C.</i>	5720 Ellis av.
Whitcomb, Adele,	A.B. (<i>Vassar College</i>) '93. Political Economy. 1.	<i>Chicago.</i>	64, 24th st.
White, Henry Kirke,	A.B. (<i>Beloit College</i>) '88; A.M. (<i>Harvard College</i>) '92. Political Economy, Political Science. 1.	<i>Lanark.</i>	10 G.
Wilcox, William Craig,	A.B. (<i>University of Rochester</i>) '88; A.M. (<i>Ibid.</i>) '91. Political Science, History. 4.	<i>Rochester, N. Y.</i>	12 G.
Wilkins, Walter Eugene,	A.B. (<i>Furman University</i>) '93. English Literature. 1.	<i>Charleston, S. C.</i>	541, 55th st.
Wilkinson, Florence,	A.B. (<i>Wellesley College</i>) '92. English, Social Science. 1.	<i>Chicago.</i>	5835 Drexel av.
Willard, Laura,	S.B. (<i>Carleton College</i>) '87. Social Science, Political Economy. 4.	<i>Chicago.</i>	5555 Woodlawn av.
Williams, Frank North,	A.B. (<i>Oberlin College</i>) '92. Political Economy, History.	<i>Oberlin, O.</i>	52 Sn.
Willis, Henry Parker,	A.B. (<i>University of Chicago</i>) '94. Political Economy, Political Science.	<i>Racine, Wis.</i>	32 Sn.
Winston, Eugenia,	A.B. (<i>University of Wisconsin</i>) '90. Philology, Latin. 1.	<i>Chicago.</i>	363 E. 58th st.
Witkowsky, Esther,	A.B. (<i>Vassar College</i>) '86. Romance Languages, German. 3.	<i>Chicago.</i>	2802 Prairie av.
Wood, Alfred Augustus,	A.B. (<i>Oberlin College</i>) '82; A.M. (<i>Ibid.</i>) '87; S.T.B. (<i>Boston University</i>) '88. Philosophy, Comparative Religion. 1.	<i>Milwaukee, Wis.</i>	Preston Hotel, 55th st. and Jackson av.
Wood, Francis Asbury,	A.B. (<i>Northwestern University</i>) '80; A.M. (<i>Ibid.</i>) '83. German, English. 1.	<i>Aurora, Neb.</i>	5537 Lexington av.
Woodruff, Charles Elmer,	A.B. (<i>University of Pennsylvania</i>) '86; B.D. (<i>Crozer Theological Seminary</i>) '89. Biblical Greek, Patristic Greek. 1.	<i>Philadelphia, Penn.</i>	146 D.
Zarbell, Ada,	A.B. (<i>University of Michigan</i>) '92. Comparative Philology, Latin. 1.	<i>Chicago.</i>	4132 Ellis av.
Zeublin, Charles,	Ph.B. (<i>Northwestern University</i>) '87; D.B. (<i>Yale University</i>) '89. Social Science, Political Economy. 4.	<i>Chicago.</i>	5134 Wabash av.

TOTAL, 180.

THE OGDEN (GRADUATE) SCHOOL OF SCIENCE.

NAME.	DEGREE; DEPT. OF STUDY; RESIDENCE.	HOME ADDRESS.	PRESENT ADDRESS.
Barrett, Ernest Clifford,	S.B. (<i>Earlham College</i>) '93. Mathematics, Political Economy. 1.	<i>Spring Valley, O.</i>	5754 Washington av.
Barrett, Storrs Barrows,	A.B. (<i>University of Rochester</i>) '89. Astronomy, Physics. 4.	<i>Rochester, N. Y.</i>	Hotel Harcourt.
Bernhard, Adolph,	A.B. (<i>Johns Hopkins University</i>) '89. Chemistry, Physics. 4.	<i>Stone Creek, O.</i>	5622 Ellis av.
Bothe, August Carl,	A.B. (<i>Central Wesleyan College</i>) '89. Chemistry, Physics. 4.	<i>St. Paul Park, Minn.</i>	487 46th st.
Bownocker, John Adams,	S.B. (<i>Ohio State University</i>) '89. Geology. 4.	<i>Columbus, O.</i>	5425 Cottage Grove av.
Boyer, Emanuel Roth,	A.B. (<i>Harvard University</i>) '90. Zoölogy, Botany. 2.	<i>Englewood.</i>	645 62d st.
Bristol, Charles Lawrence,	S.B. (<i>University of the City of N. Y.</i>) '83; S.M. (<i>Ibid.</i>) '88; Zoölogy, Palæontology. 4.	<i>Ballston Spa, N. Y.</i>	5835 Drexel av.
Brode, Howard Stidham,	Graduate (<i>Illinois Normal University</i>) '88; Student (<i>Wood's Hull</i>) '90. Zoölogy, Physiology. 1.	<i>Urbana.</i>	804 64th st.
Buell, Ira Maynard,	Ph.B. (<i>Beloit College</i>) '78; A.M. (<i>Ibid.</i>) '81. Geology. 1.	<i>Beloit, Wis.</i>	The Harcourt, 57th st. & Madison av.
Chamberlain, Charles Joseph,	A.B. (<i>Oberlin College</i>) '88. Botany, Zoölogy. 1.	<i>Oberlin, O.</i>	6034 Woodlawn av.
Chesnut, Victor King,	S.B. (<i>University of California</i>) '90. Chemistry, Physics. 1.	<i>Oakland, Cal.</i>	5509 Monroe av.
Clapp, Cornelia Maria,	Ph.B. (<i>Syracuse University</i>); Ph.D. (<i>Ibid.</i>) '89. Zoölogy. 1.	<i>Montague, Mass.</i>	3154 Prairie av.
Cobb, Herbert Edgar,	A.B. (<i>Wesleyan University</i>); A.M. (<i>Ibid.</i>). Mathematics, Astronomy. 1.	<i>Searsmont, Me.</i>	Hotel Barry, Madison av. & 59th st.
Cole, Aaron Hodgman,	A.B. (<i>Colgate University</i>) '84; A.M. (<i>Ibid.</i>) '87. Zoölogy. 1.	<i>Greenwich, N. Y.</i>	5926 Monroe av.
Cooke, Elizabeth,	S.B. (<i>University of Michigan</i>) '93. Physiology, Physics. 1.	<i>Chicago.</i>	35 F.
Cowles, Henry Chandler,	A.B. (<i>Oberlin College</i>) '93. Geology, Botany. 1.	<i>Kensington, Conn.</i>	5835 Drexel av.
Crofton, Alfred Charles,	A.B. (<i>Falkreal Gymnasium, Berlin, Ger- many</i>) '90. Chemistry, Physics.	<i>Chicago.</i>	Barrett House, Cottage Grove av.
Deaton, Eula Weston,	A.B. (<i>Industrial Institute and College of Miss.</i>) '89; Mathematics, English. 1.	<i>Childress, Tex.</i>	46 F.
Eycleshymmer, Albert Chauncey,	S.B. (<i>University of Michigan</i>) Zoölogy, Neurology. 1.	<i>Hastings, Mich.</i>	5529 Monroe av.
Farr, Marcus Stults,	A.B. (<i>Princeton College</i>) '92; S.M. (<i>Ibid.</i>) '92; Palæontology, Zoölogy. 1.	<i>Cranbury, N. J.</i>	9 G.
Fenelon, Eunice Agnes,	S.B. (<i>Lawrence University</i>) '90. Mathematics, Political Economy. 1.	<i>Weyannego, Wis.</i>	11 F.
Fiske, Winthrop Edwards,	A.B. (<i>Harvard College</i>) '90. Physics. 1.	<i>Lowell, Mass.</i>	5620 Ellis av.
Foley, Arthur Lee,	A.B. (<i>University of Indiana</i>) '90; (<i>Ibid.</i>) '91. Physics, Mathematics. 1.	<i>Bloomington, Ind.</i>	6042 Washington av.
Folin, Otto Knute Olaf,	S.B. (<i>University of Minnesota</i>) '92. Chemistry, Physics. 1.	<i>Stillwater, Minn.</i>	5622 Drexel av.
Ford, Elizabeth Keith,	(<i>Daughters College, Ky.</i>) Geology. 1.	<i>Paris, Ky.</i>	5612 Drexel av.
Fox, Herbert Wright,	A.B. (<i>Union College</i>) '93. Chemistry. 1.	<i>Detroit, Mich.</i>	43 Sn.
Froley, John William,	S.B. (<i>University of Missouri</i>) '88; S.M. (<i>Ibid.</i>) 1892; Astronomy, Mathematics. 4.	<i>Canton, Mo.</i>	5630 Ingleside av.
Gillespie, William,	A.B. (<i>Toronto University</i>) '93. Mathematics, Physics. 1.	<i>Hamilton, Can.</i>	5708 Madison av.
Gordon, Charles Henry,	S.B. (<i>Albion College</i>) '86; S.M. (<i>Ibid.</i>) '90. Geology, Biology. 3.	<i>Chicago.</i>	453, 55th st.
Goodell, Frank Elbert,	A.B. (<i>University of Dakota</i>) '89. Chemistry. 1.	<i>Emerson, Ia.</i>	5835 Drexel av.
Hardcastle, Frances,	Mathematical Tripos (<i>Cambridge, Eng- land</i>); Part I, '91, Part II, '92. Mathematics. 1.	<i>London, Eng.</i>	5740 Monroe av.
Hardesty, Irving,	A.B. (<i>Wake Forest College</i>) '92. Zoölogy, Physiology, Histology. 1.	<i>Wakefield, N. C.</i>	24 Sn.

NAME.	DEGREE ; DEPT. OF STUDY ; RESIDENCE.	HOME ADDRESS.	PRESENT ADDRESS.
Harvey, Seth,	S.B. (<i>Wilmington College</i>) '91. Mathematics, Astronomy. 1.	Ogden, O.	56 Sn.
Hay, Oliver Perry,	A.B. (<i>Eureka College</i>) '70; Ph.D. (<i>Indiana University</i>) '87. Palæontology. 4.	Chicago.	5626 Jefferson av.
Hesse, Bernhard Conrad,	Ph.C. (<i>University of Michigan</i>) '89; S.B. (<i>Ibid.</i>) '93. Chemistry, Physics. 1.	Saginaw, E.S., Mich.	7 Sn.
Hibbard, Herschel Vincent,	(<i>Northern Indiana Normal</i>). Physiology, Geology. 1.	Valparaiso, Ind.	6124 Wharton av.
Hopkins, Thomas Cramer,	S.B. (<i>De Pauw University</i>) '87; S.M. (<i>Ibid.</i>) '90; A.M. (<i>Leland Stanford University</i>) '92. Geology, Mineralogy. 1.	Chicago.	6149 Woodlawn av.
Huff, William Bashford,	A.B. (<i>University of Wisconsin</i>) '89. Mathematics. 3.	Boscobel, Wis.	The Harcourt.
Hutchinson, John Irwin,	A.B. (<i>Bates College</i>) '89. Mathematics, Astronomy. 4.	Chicago.	599 E. 65th st.
Jaquish, Ben Murray,	S.B. (<i>Cornell University</i>) '93. Chemistry. 1.	Luzerne, Pa.	865 Adams st.
Joffe, Solomon Achillowitz,	S.M. (<i>University of the City of New York</i>) '93. Mathematics, Mechanics. 1.	Chicago.	572 S. Halsted st.
Johnson, Herbert Parlin,	A.B. (<i>Harvard University</i>) '89; A.M. (<i>Ibid.</i>) '90; Ph.D. (<i>The University of Chicago</i>) '94. Zoölogy, Neurology. 4.	Everett, Mass.	5529 Monroe av.
Jones, Lander William,	A.B. (<i>Williams College</i>) '92. Chemistry, Physics. 1.	Peoria, Ill.	5415 Cottage Grove av.
Kümmel, Henry Barnard,	A.B. (<i>Beloit College</i>) '89; A.M. (<i>Harvard University</i>) '92. Geology. 4.	Milwaukee, Wis.	5620 Ellis av.
Lehman, Daniel Acker,	S.B. (<i>Normal School, Millersville, Pennsylvania</i>); Ph.B. (<i>Wesleyan University</i>). Mathematics, Astronomy. 1.	Chambersburg, Pa.	541, 55th st.
Leslie, George Lee,	S.B. (<i>University of Iowa</i>) '82; A.M. (<i>Ibid.</i>) '85. Physics, Astronomy. 1.	Santa Barbara, Cal.	55th & Washington av.
Lillie, Frank Rattray,	A.B. (<i>University of Toronto</i>) '91. Zoölogy, Neurology. 4.	Toronto, Can.	5316 Jackson av.
Lucas, Frederic Colby,	S.B. (<i>Harvard College</i>) '92. Palæontology. 1.	Chicago.	5722 Kimbark av.
Mautner von Markhof, Otto,	Ph.D. (<i>University of Vienna</i>) '90. Physics, Chemistry. 1.	Vienna, Austria.	3146 Wabash av.
Mead, Albert Davis,	A.B. (<i>Middlebury College</i>) '80; A.M. (<i>Brown University</i>) '92. Zoölogy, Neurology. 4.	Chicago.	17 Ray st.
Miller, Merton Leland,	A.B. (<i>Colby University</i>) '90. Anthropology, Biology. 4.	Lowell, Mass.	5620 Ellis av.
Mitchell, Benjamin Sidney,	S.B. (<i>Wake Forest College</i>) '90. Chemistry, Physics. 1.	Youngsville, N. C.	43 Sn.
Mitchell, Walter Reynolds,	S.B. (<i>University of Illinois</i>) '87. Physiology. 1.	Chicago.	824, 62d st.,
Munson, John P.,	S.B. (<i>University of Wisconsin</i>) '87; S.M. (<i>Ibid.</i>) '92; Ph.B. (<i>Yale University</i>) '92. Zoölogy, Physiology. 1.	Shabbona.	691, 57th st.
Newby, Charles B.,	S.B. (<i>Earlham College</i>) '89. Chemistry, Physics. 4.	Converse, Ind.	Keene Hotel, 55th st.
Peet, Charles Emerson,	S.B. (<i>University of Wisconsin</i>) '92. Geology, Mineralogy. 4.	Good Hope.	5620 Ellis av.
Perisho, Elwood Chappell,	S.B. (<i>Earlham College</i>) '87; S.M. (<i>Ibid.</i>) '91. Geology, Mineralogy. 1.	Carmel, Ind.	Keene Hotel, 55th st.
Quereau, Edmund Chase,	Ph.B. (<i>Northwestern University</i>) '88; Ph.M. (<i>Ibid.</i>) '92; Ph.D. (<i>Freiburg, Baden</i>) '93. Geology, Petrology. 1.	Aurora.	5757 Madison av.
Schottenfels, Ida May,	Ph. B. (<i>Northwestern University</i>) '92. Mathematics. 1.	Chicago.	5810 Drexel av.
Slaughter, Herbert Ellsworth,	A.B. (<i>Colgate University</i>) '83; A.M. (<i>Ibid.</i>) '86. Mathematics, Astronomy. 4.	Englewood.	440, 64th st.
Smith, James Archy,	Ph.B. (<i>Denison University</i>) '89; A.M. (<i>Ibid.</i>) '92. Mathematics. 4.	Mercer's Bottom, W. Va.	438, 57th st.
Smith, Warren Rufus,	A.B. (<i>Bowdoin College</i>) Chemistry, Physics. 4.	Litchfield Corners, Me.	5622 Ellis av.
Stafford, John,	A.B. (<i>University of Toronto</i>) '87; D.B. (<i>Morgan Park Theological Seminary</i>) '89. Physiological Psychology, Neurology. 1.	Flesherton, Can.	6124 Wharton av.
Stone, Harriet,	A.B. (<i>Wellesley College</i>) '89. Chemistry, Physics, Mathematics. 4.	Chicago.	3352 Indiana av.
Stone, Isabelle,	A.B. (<i>Wellesley College</i>) '90. Physics, Chemistry. 1.	Chicago.	3352 Indiana av.

THE QUARTERLY CALENDAR.

NAME.	DEGREE; DEPT. OF STUDY; RESIDENCE.	HOME ADDRESS.	PRESENT ADDRESS.
Sturges, Mary Mathews,	S.B. (<i>University of Michigan</i>) '93. Zoölogy, Physiology. 1.	Oak Park.	19 B.
Swartz, Samuel Ellis,	A.B. (<i>Denison University</i>) '79. Chemistry, Physics. 4.	Chicago.	5726 Drexel av.
Taylor, Edward Everett,	Ph.B. (<i>University of Michigan</i>). Physics, Chemistry.	Owosso, Mich.	543, 55th st.
Taylor, Nellie M.,	A.B. (<i>Hanover College</i>) '88; A.M. (<i>Ibid.</i>) '91. Mathematics, Philosophy. 1.	Hanover, Ind.	11 F.
Taylor, William Edgar,	A.B. (<i>Clinton College</i>) '79; A.M. (<i>Ibid.</i>) '85; S.M. (<i>Purdue University</i>) '92. Paleontology, Zoölogy, Geology. 3.	Chicago.	5427 Cottage Grove av.
Torrey, Clarence Almon,	Ph.B. (<i>Cornell College</i>) '90. Mathematics. 4.	Manchester, Ia.	541, 55th st.
Welch, Jeanette Cora,	A.B. (<i>Wellesley College</i>) '89. Philosophy, Physics. 1.	Chicago.	335 So. Halsted st.
Whitney, Albert Wurts,	A.B. (<i>Beloit College</i>) '91. Physics, Mathematics. 1.	Beloit, Wis.	Hotel Harcourt.
Willard, Daniel Everett,	A.B. (<i>Oxford University</i>) '88; A.M. (<i>Ibid.</i>) '90. Geology, Biology. 4.	Nile, N. Y.	6124 Wharton av.
Willard, Emma,	A.B. (<i>Oberlin College</i>) '88; A.M. (<i>University of California</i>) '91. Geology, Physics.	Chicago.	5555 Woodlawn av.
Wolfe, Katharine Margaret,	L.B. (<i>Adrian College</i>); S.B. (<i>Ibid.</i>) Biology, Physics. 1.	Tiffin, O.	26 B.
Wood, Robert Williams,	A.B. (<i>Harvard University</i>) '91. Chemistry, Physics. 4.	Chicago.	5237 Jefferson av.
TOTAL, 77.			

THE NON-RESIDENT GRADUATE STUDENTS.

NAME.	DEGREE; DEPT. OF STUDY.	HOME ADDRESS.
Abbott, Mary Merriman,	A.B. (<i>Vassar College</i>) '78. Social Science and Anthropology.	Hendersonville, N. C.
Bosworth, Anne Lucy,	B.S. (<i>Wellesley College</i>) '90. Mathematics.	22 Harris av., Woonsocket, R. I.
Breasted, James H.,	A.B. (<i>Northwestern College</i>) '89. Semitic.	Berlin, Germany.
Brown, John Burrows,	A.B. (<i>Knox College</i>) '86; A.M. '89. Constitutional History.	Roseville.
Burriss, William Paxton,	Ph.B. (<i>De Pauw University</i>) '91. Philosophy.	Bluffton, Ind.
Campbell, Peter Sinclair,	A.B. (<i>Toronto University</i>) '77. Greek.	92 Yorkville av., Toronto, Can.
Estey, Stephen Sewell,	A.B. (<i>Oberlin College</i>) '83; A.M. (<i>Ibid.</i>) '87. Social Science.	Humboldt, Kans.
Hull, Daniel,	A.B. (<i>Toronto University</i>) '89. Mathematics.	Toronto, Canada.
Hulley, Eloise Mayham,	A.B. (<i>University of Michigan</i>) '90; A.M. (<i>University of Chicago</i>) '94. Philosophy.	Lewisburg, Pa.
Hulley, Lincoln,	A.B. (<i>Bucknell University</i>) '88; A.B. (<i>Har- vard College</i>) '89; A.M. (<i>Bucknell Univer- sity</i>) '91. Semitic.	Lewisburg, Pa.
Jones, Frank William,	S.B. (<i>Wisconsin State University</i>) '92. Geology.	Elk Grove, Wis.
Locy, William A.,	B.S. (<i>University of Michigan</i>) '81; S.M. (<i>Ibid.</i>) '84. Zoölogy. II yr.	Lake Forest.
McKee, William Parker,	A.B. (<i>Wabash College</i>) '82, D.B. (<i>Morgan Park Theological Seminary</i>) '87. Ancient History.	522, 12th av. S. E., Minneapolis, Minn.
McPheeters, William Marcellus,	A.B. (<i>Washington and Lee University</i>) '74. Semitic.	Columbia, S. C.
Patton, Walter M.,	D.B. (<i>Wesleyan Theological College, Mon- treal</i>). Semitic.	228 University st., Montreal, Canada.
Peirce, Louise Stephens Fagan,	A.B. (<i>Vassar College</i>) '88. Philosophy.	Gambier, Ohio.
Plumb, George H. R.,	Ph.B. (<i>Lafayette College</i>) '77; A.M. (<i>Ibid.</i>) '80. Political Economy.	Glencoe, Cook Co., Ill.
Pratt, Alice E.,	Ph.B. (<i>University of California</i>) '92; Ph.M. (<i>University of Chicago</i>) '93. English.	British Museum, London, Eng.

RECORDS.

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NAME.	DEGREE; DEPT. OF STUDY.	HOME ADDRESS.
Smith, William H.,	A.B. (<i>Amherst College</i>) '90. Comparative Philology.	<i>Lahainaluna Maui, H. I.</i>
Townsend, Edgar J.,	Ph.M. (<i>Albion College</i>) '90; Ph.M. (<i>University of Michigan</i>) '92. Mathematics.	<i>Champaign, Ill.</i>
Treadwell, A. L.,	B.S. (<i>Wesleyan University</i>) '88; S.M. (<i>Ibid.</i>) '90. Zoology.	<i>Miami University, Oxford, O.</i>
Udden, John August,	A.B. (<i>Augustana College</i>) '81; A.M. (<i>Ibid.</i>) '89. Geology.	<i>1000, 38th st., Rock Island.</i>
Walker, Buzz M.,	B.S. (<i>Agricultural and Mechanical College of Mississippi</i>) '83; M.S. (<i>Ibid.</i>) '86. Mathematics.	<i>Agricultural College, Miss.</i>
Walton, Frederick J.,	A.B. (<i>Brown University</i>) '80; A.M. (<i>Ibid.</i>) '88. Semitic.	<i>6949 Webster av., Englewood.</i>
Willett, Herbert Lockwood,	A.B. (<i>Bethany College</i>); A.M. (<i>Ibid.</i>) '86. Semitic. II yr.	<i>Ann Arbor, Mich.</i>
Wood, Irving F.,	A.B. (<i>Hamilton College</i>) '85; A.M. (<i>Ibid.</i>) '88; D.B. (<i>Yale University</i>) '92. Philosophy.	<i>Smith College, Northampton, Mass.</i>
Wright, Frederick Herbert,	A.B. (<i>Mt. Allison College</i>) '75. Semitic.	<i>Grand Pre, N. S.</i>
		TOTAL, 27.

THE DIVINITY SCHOOL.

THE GRADUATE DIVINITY SCHOOL.

NAME.	DEGREE AND PLACE; YEAR IN DIV. SCHOOL.	HOME ADDRESS.	PRESENT ADDRESS.
Aitchison, John Young,	A.B., (<i>Des Moines College</i>) '93. I yr.	<i>Des Moines, Ia.</i>	135 D.
Allen, Charles William,	A.B. (<i>Bucknell University</i>) '92. II yr.	<i>Scranton, Pa.</i>	45 D.
Allen, Jr., Ira Wilder,	A.B., A.M. (<i>Williams College</i>) '84. II yr.	<i>Englewood.</i>	612 Maple st.
Allison, Matthew Gay,	A.B. (<i>Dalhousie College</i>) '86; A.M. (<i>Princeton</i>) '89; (<i>Union Theological Seminary</i>) '90. IV yr.	<i>Windsor, N. S.</i>	108 D.
Atchley, Isaac Carroll,	A.B. (<i>Drury College</i>) '93. I yr.	<i>Springfield, Mo.</i>	35 D.
Bale, George A.,	Ph.D. (<i>Des Moines College</i>) '93. I yr.	<i>Ames, Ia.</i>	154 D.
Beyl, John Lewis,	S.B. (<i>Borden Institute</i>) '89. I yr.	<i>Jeffersonville, Ind.</i>	108 D.
Borden, Edward Howard,	A.B. (<i>Acadia University</i>) '92. II yr.	<i>Truro, N. S.</i>	109 D.
Bowen, Everett Anthony,	A.B. (<i>Brown University</i>) '92. II yr.	<i>Providence, R. I.</i>	129 D.
Brewster, Marilla Mark,	(<i>New Hampton Literary and Biblical Institute</i>). I yr.	<i>N. Danville, N. H.</i>	5515 Woodlawn av.
Braker, Jr., George,	A.B. (<i>Colgate University</i>) '93. I yr.	<i>Brooklyn, N. Y.</i>	138 D.
Brandmark, Anders Larsen,	(<i>Morgan Park Theological Seminary</i>) III yr.	<i>Slagelse, Denmark.</i>	87 D.
Bronson, Fred C. G.,	A.B. (<i>Yale University</i>) '92. II yr.	<i>Norwich, Conn.</i>	105 D.
Bruce, Preston P.,	A.B. (<i>Cornell College, Iowa</i>) '93. I yr.	<i>Manchester, Ia.</i>	78 D.
Brownson, Edwin Julius,	A.B. (<i>Colgate University</i>) (<i>Newton Theological Seminary</i>). IV yr.	<i>Englewood.</i>	529, 61st.
Case, Carl Delos,	A.B. (<i>Colgate University</i>) '91. II yr.	<i>St. Anthony Park, Minn.</i>	126 D.
Cabeen, James Wallace,	A.B. (<i>Ripon College</i>) '88; B.D. (<i>Morgan Park Theological Seminary</i>) '93. IV yr.	<i>Chicago.</i>	7134 Champlain al., Brookline Park.
Chalmers, William Everett,	A.B. (<i>Brown University</i>) '93. I yr.	<i>Paterson, N. J.</i>	133 D.
Chapin, Judson Clarke,	A.B. (<i>University of Rochester</i>) '89. II yr.	<i>Chicago.</i>	3816 Rhodes av.
Coon, Daniel Israel,	A.B. (<i>State University of Iowa</i>) '89.	<i>Osage, Ia.</i>	6126 Wharton av.
Coon, David Burdette,	S.B. (<i>Milton College</i>) '91. III yr.	<i>Chicago.</i>	5455 Monroe av.
Cressey, Frank Graves,	A.B. (<i>Brown University</i>) '91. II yr.	<i>Los Angeles, Cal.</i>	133 D.
Criswell, John Marion,	A.B. (<i>Denison University</i>) '92. II yr.	<i>S. Kirtland, O.</i>	136 D.
Davis, John Tinsdale,	A.B. (<i>Alfred University</i>) '89. IV yr.	<i>Alfred Center, N. Y.</i>	48 D.
Davis, Ulysses Sherman,	A.B. (<i>Denison University</i>) '92. II yr.	<i>Youngstown, O.</i>	77 D.
Dickerson, Philip Jackson,	(<i>Dennison University</i>) '79; (<i>Heidelberg, Ohio</i>) '90.	<i>Chicago.</i>	5606 Ellis av., Brook- line Park.
Eakin, John Alexander,	A.B. (<i>Beloit College</i>) '87. II yr.	<i>Elgin.</i>	55 D.
Eaton, William Henry,	A.B. (<i>Ottawa University</i>) '93. I yr.	<i>Ottawa, Kans.</i>	86 D.
Eddy, William Jobes,	A.B. (<i>West Virginia University</i>) '93. I yr.	<i>Cross Roads, W. Va.</i>	34 D.
Eubank, Marian D.,	A.B. (<i>William Jewell College</i>), M.D. (<i>Marrion Simms College of Medicine</i>) '91. I yr.	<i>Pleasant Hill, Mo.</i>	137 D.
Fisk, Henry Alfred,	L.B. (<i>University of California</i>) '91. II yr.	<i>St. Charles.</i>	70 D.
Fletcher, Charles Wesley,	A.B. (<i>Wheaton College</i>) '92. I yr.	<i>Chicago.</i>	127 D.
Ford, John Elijah,	(<i>Beloit College Academy</i>) '91. III yr.	<i>Chicago.</i>	57 D.
Frantz, Edward,	A.B. (<i>Ohio Normal University</i>) '91. II yr.	<i>Chicago.</i>	5423 Monroe av.
Georges, Mooshie,	(<i>Oroomiah College, Persia</i>). I yr.	<i>Oroomiah, Persia.</i>	110 D.
Goodman, Alfred Ebenezar,	A.B. (<i>Ottawa University</i>) '91. II yr.	<i>Antrim, Kans.</i>	132 D.
Grant, John Hiram,	A.B. (<i>Amherst College</i>) '92. II yr.	<i>Goldsborough, N. C.</i>	129 D.
Grarup, Christ Petersen,	(<i>Morgan Park Theological Seminary</i>). III yr.	<i>N. Suede, Denmark.</i>	87 D.
Griffeth, Benjamin Franklin,	A.B. (<i>University of Chicago</i>). I yr.	<i>Lula, Va.</i>	5724 Drexel av.
Guard, Paul,	Th.B. (<i>Oberlin</i>) '93. I yr.	<i>Cleves, O.</i>	65 D.
Hageman, Simon Sylvester,	A.B. (<i>Ottawa University</i>) '93. I yr.	<i>Clifton, Kas.</i>	85 D.

RECORDS.

NAME.	DEGREE AND PLACE; YEAR IN DIV. SCHOOL.	HOME ADDRESS.	PRESENT ADDRESS.
Halbert, William Chase,	A.B. (<i>La Grange College</i>) '92. II yr.	<i>Plymouth.</i>	66 D.
Hanson, Howland,	A.B. (<i>Princeton College</i>) '92. II yr.	<i>Savannah.</i>	Keene Hotel.
Hazelton, Carl Dorsey,	A.B. (<i>Franklin College</i>) '93. I yr.	<i>Richmond, Ind.</i>	148 D.
Herrick, Julian Avery,	S.B. (<i>La Grange College</i>) '92. II yr.	<i>La Grange, Mo.</i>	79 D.
Heyland, Thomas Western,	A.B. (<i>University of North Dakota</i>) '91.	<i>Pavilion.</i>	578 E. 60th st.
Hicks, Franklin Benjamin,	A.B. (<i>Beloit College</i>) '85. I yr. III yr.	<i>Wayne.</i>	Wayne.
Holcomb, Georǵe Perry,	A.B. (<i>University of Rochester</i>) '89. IV yr.	<i>Rochester, N. Y.</i>	75 D.
Horne, George,	A.B. (<i>Ottawa University</i>) '91. III yr.	<i>Chicago.</i>	132 D.
Howard, Harry,	A.B. (<i>Trinity College</i>) '91. III yr.	<i>Chicago.</i>	5548 Ingleside av.
Howard, Walter Simon,	A.B. (<i>University of Rochester</i>) '91. I yr.	<i>Port Huron, Mich.</i>	122 D.
Hurley, Hugh Henry,	(<i>Woodstock College, Ontario</i>). I yr.	<i>Chater, Man.</i>	44 D.
Irvine, William Franklin,	A.B. (<i>University of Manitoba</i>) '91. III yr.	<i>Yorkville.</i>	Yorkville.
Ingraham, Lee Joseph,	A.B. (<i>Acadia University</i>) '91. I yr.	<i>Frizzleton, Nova Scotia.</i>	83 D.
Jones, Henry Farrar,	(<i>Ottawa University</i>) '91. II yr.	<i>Berdena, Kans.</i>	143 D.
Johnson, Philip Matthew,	B.L. (<i>South West Baptist College</i>) '89. A.B. (<i>Ibid.</i>) '91. I yr.	<i>Springfield, Mo.</i>	5830 Rosalie ct.
Kinney, Bruce,	A.B. (<i>Denison University</i>) '92. II yr.	<i>Plano.</i>	128 D.
Lake, Elisha Moore,	(<i>Bucknell University</i>). III yr.	<i>Elmira, N. Y.</i>	141 D.
Larson, Nels R.,	(<i>Morgan Park Theological Seminary</i>). III yr.	<i>Morgan Park.</i>	119 D.
Laudahl, Nels Lorenson,	(<i>Morgan Park Theological Seminary</i>). III yr.	<i>Kasson, Minn.</i>	119 D.
Leadingham, John,	A.B. (<i>Oberlin</i>) '83: (<i>Oberlin Seminary</i>) '87.	<i>Oberlin, O.</i>	80 D.
Lemon, Charles Augustus,	A.B. (<i>Colgate University</i>) '92. II yr.	<i>Attica, N. Y.</i>	142 D.
Lockhart, John Moses,	L.B. (<i>Denison University</i>) '92. II yr.	<i>Harvey.</i>	Harvey.
Martin, Benjamin F.,	(<i>Morgan Park Theological Seminary</i>) III yr.	<i>Berwyn.</i>	Berwyn.
McKinney, Everson Ryder,	L.B. (<i>University Minnesota</i>) '87. I yr.	<i>Rochelle.</i>	69 D.
Morgan, James Albert,	A.B. (<i>Franklin College</i>) '93. I yr.	<i>Montgomery, Ind.</i>	5550 Drexel av.
Myhrmann, David,	(<i>Baptist Theological Seminary, Sweden</i>). II yr.	<i>Stockholm, Sweden.</i>	73 D.
Nichols, Walter Hammond,	S.B. (<i>University of Michigan</i>). Special.	<i>Ann Arbor, Mich.</i>	5800 Jackson av.
Nichols, Ettie B.,	(<i>University of Michigan</i>). Special.	<i>Ann Arbor, Mich.</i>	5800 Jackson av.
Noftfinger, John Eubank,	(<i>Morgan Park Theological Seminary</i>). III yr.	<i>Lithia, Va.</i>	144 D.
Nordlander, Eric Johan,	(<i>Morgan Park Theological Seminary</i>). III yr.	<i>Roseland.</i>	Roseland.
Osborn, Loran David,	A.B. (<i>University of Michigan</i>) '91. II yr.	<i>Grand Rapids, Mich.</i>	76 D.
Peterson, William August,	D.B. (<i>Morgan Park Theological Seminary</i>) '90. IV yr.	<i>Chicago.</i>	97 D.
Phillips, Daniel Thomas,	(<i>Haverford College, Wales</i>) '64. II yr.	<i>Chicago.</i>	7142 Kinney av.
Phillips, Nellie Maria,	S.B. (<i>Hillsdale College</i>) '75. Special.	<i>Chicago.</i>	5515 Woodlawn av.
Proctor, John Thomas,	A.B. (<i>William Jewell College</i> ,) '91. II yr.	<i>Philadelphia, Mo.</i>	Windsor Park.
Randall, John Herman,	A.B. (<i>Colgate University</i>) '92. I yr.	<i>St. Paul, Minn.</i>	5825 Kimbark av.
Read, Eliphalet Allison,	A.B. (<i>Acadia University</i>) '91. III yr.	<i>Berwick, Nova Scotia.</i>	128 D.
Rhodes, Jesse Cassandra,	A.B. (<i>Franklin College</i>) '92. II yr.	<i>Renssalaer, Ind.</i>	5550 Drexel av.
Rocen, Johan,	(<i>Swedish Theological Seminary, Morgan Park</i>) '92. I yr.	<i>Chicago.</i>	101 D.
Sanders, James Franklin,	A.B. (<i>Furman University</i>) '92. II yr.	<i>Saluda, S. C.</i>	93 D.
Sanderson, Eugene Claremont,	A.B. (<i>Oskaloosa College</i>) '83; A.M. (<i>Drake University</i>) '86; D.B. (<i>Drake Divinity School</i>) '93. IV yr.	<i>Tacoma, Wash.</i>	358, 65th st.
Shatto, Charles Rollin,	A.B. (<i>Western College, Toledo, Iowa</i>) '90. III yr.	<i>Toledo, Ia.</i>	130 D.
Starkweather, Earnest Edward,	A.B. (<i>Ottawa University</i>) '91. III yr.	<i>Clay Centre, Kans.</i>	Englewood Y. M. C. A.
Steelman, Albert Judson,	A.B. (<i>Colgate University</i>). III yr.	<i>City of Mexico, Mexico.</i>	145 Oakwood boul.

THE QUARTERLY CALENDAR.

NAME.	DEGREE AND PLACE ; YEAR IN DIV. SCHOOL.	HOME ADDRESS.	PRESENT ADDRESS.
Stevens, Almon Odell,	A.B. (<i>Bucknell University</i>) '91. II yr.	<i>Kingsley, Pa.</i>	136 D.
Taylor, William Brooks,	A.B. (<i>College of Liberal Arts of Kentucky University</i>) '93. IV yr.	<i>Lexington, Ky.</i>	71 D.
Topping, Henry,	A.B. (<i>Rochester University</i>) '92; B.D. (<i>Baptist Union Theological Seminary</i>) '92.	<i>Columbia, S. C.</i>	
Tustin, Paul,	A.B. (<i>Bucknell University</i>) '91. II yr.	<i>Bloomsburg, Pa.</i>	121 D.
Varney, Edgar Dow,	A.B. (<i>Bates College</i>) '86.	<i>Fort Collins, Colo.</i>	6126 Wharton av.
Waldo, William Albergince,	Th.B. (<i>Morgan Park Theological Seminary</i>) '92. I yr. B.Ph. (<i>Des Moines College</i>) '93. IV yr.	<i>Drayton, N. Dak.</i>	Fernwood.
Ward, John Albert,	S.B. (<i>Western College</i>) '89. III yr.	<i>Odon, Ind.</i>	150 D.
Watson, Arthur Tilley,	A.B. (<i>Colby University</i>) '91. II yr.	<i>Oakland, Me.</i>	151 D.
Wilkin, William Arthur,	A.B. (<i>Denison University</i>) '93. IV yr.	<i>New Market, O.</i>	69 D.
Wishart, Alfred Wesley,	A.B. (<i>Colgate University</i>) '89. II yr.	<i>Maywood.</i>	5825 Kimbark av.
Wood, George R.,	Ph.B. (<i>Denison University</i>) '88; B.D. (<i>Morgan Park Theological Seminary</i>) '91. IV yr.	<i>Joliet.</i>	Joliet, Ill.
Wood, William Robert,	(<i>University of Colorado</i>). II yr.	<i>Chicago.</i>	6231 Sheridan av.
Woodruff, Charles Elmer,	A.B. (<i>University of Pennsylvania</i>) '86; Crozer Theological Seminary) '89. IV yr.	<i>Philadelphia, Pa.</i>	146 D.
Wright, George Clarence,	A.B. (<i>Denison University</i>) '93. I yr.	<i>Englewood.</i>	520 Maple st.
Wyant, Andrew Robt. Elmer,	A.B. (<i>Bucknell University</i>) '92. II yr.	<i>Adrian, Pa.</i>	112 D.
		TOTAL, 102.	

THE ENGLISH THEOLOGICAL SEMINARY.

NAME.	DEGREE AND PLACE ; YEAR IN DIV. SCHOOL.	HOME ADDRESS.	PRESENT ADDRESS.
Allen, Hiram Howard,	(<i>Cedar Valley Seminary</i>). I yr.	<i>Bassett, Neb.</i>	6617 Lafin av.
Bailey, Robert,	(<i>Morgan Park Theological Seminary</i>). III yr.	<i>Barrington.</i>	120 D.
Blake, James,	(<i>Hulme Cliff College</i>) '89. II yr.	<i>Chicago.</i>	1145 Lexington av.
Berry, Henry Havelock,	(<i>Hebron Academy</i>) '85. I yr.	<i>West Sumner, Me.</i>	878, 35th st.
Bixon, Frank Prince,	(<i>Denison University, also Ohio Institute for Blind</i>) '89. III yr.	<i>New York, N. Y.</i>	140 D.
Boynton, Melbourn Parker,	(<i>California College</i>). II yr.	<i>Newark.</i>	54 D.
Broomfield, Thomas,	Special. (<i>Moody Bible Institute</i>) '92.	<i>Mapleton, Minn.</i>	152 D.
Carroll, Robert,	(<i>Private School, Zenorville, Ia.</i>) II yr.	<i>Earlville.</i>	5743 Kimbark av.
Case, Frank Almerian,	(<i>Georgetown College</i>). II yr.	<i>Waterman.</i>	63 D.
Davies, Frederick George,	(<i>Nebraska City College</i>). III yr.	<i>Somonauk.</i>	390, 57th st.
Dent, Joseph Croft,	(<i>The Bible Institute, Chicago</i>) '91. I yr.	<i>Maplewood.</i>	39 D.
Dexter, Stephen Byron,	(<i>Bible Institute, Chicago</i>) '90. I yr.	<i>Polo.</i>	37 D.
Dewey, Walter Levi,	(<i>Dennison—Soph.</i>) '92. II yr.	<i>Willoughby, O.</i>	52 D.
Elliott, John Waterman,	(<i>Morgan Park Theological Seminary</i>) III yr.	<i>Riverdale.</i>	Riverdale.
Evans, Thomas Silas,	Special studies (<i>Woodstock College; McMaster University, Toronto</i>).	<i>Toronto, Can.</i>	84 D.
Fradenburg, John Victor,	(<i>Woodstock College</i>). I yr.	<i>Upper Ontario.</i>	141 D.
Giblett, Thomas John,	(<i>East London Institute, London, Eng.</i>)	<i>Marley.</i>	152 D.
Gill, Theophilus Anthony,	(<i>Princeton College</i>) '83. II yr.	<i>West Park on the Hudson, N. Y.</i>	50 D.
Grablachoff, Wiliko,	(<i>Crozer Theological Seminary</i>). II yr.	<i>Tulcho, Rumania.</i>	62 D.
Hatch, Elmer Ellsworth,	(<i>California College</i>). I yr.	<i>Lafayette, Cal.</i>	143 D.
Hole, Charles Boyd,	(<i>Morgan Park Theological Seminary</i>). II yr.	<i>Fairbury, Neb.</i>	140 D.
Hoyt, John Lewis,	(<i>Hamilton College</i>) '93. III yr.	<i>Sennett, N. Y.</i>	541, 55th st.
Jones, John W.,	A.B. (<i>Kansas Normal College</i>) '86. II yr.	<i>Parsons, Kans.</i>	1043 Otto st.
Lockwood, Clarence Herman,	(<i>Cedar Valley Seminary</i>) '90. I yr.	<i>Coldwater, Ia.</i>	5709 Drexel av.

NAME.	DEGREE AND PLACE ; YEAR IN DIV. SCHOOL.	HOME ADDRESS.	PRESENT ADDRESS.
Lockwood, Mrs. Emma Little,	Special. (<i>Des Moines College</i>) '93.	<i>Coldwater, Ia.</i>	5709 Drexel av.
Loughridge, John Wilfred,	(<i>Claysburg, Tenn., High School</i>) '85. III yr.	<i>Ryerson Station, Pa.</i>	145 D.
Mason, George Claude,	(<i>High School, Jacksonville, Ill.</i>) I yr.	<i>Mason City, Ia.</i>	109 D.
McDonald, Ephraim Harvey,	(<i>Bucknell University.</i>) III yr.	<i>Detroit, Mich.</i>	57 D.
Morgan, Jennie Chaille,	(<i>Franklin Colleye.</i>) Special.	<i>Chicago.</i>	5550 Drexel av.
Paul, Joseph,	(<i>Military School, India.</i>) I yr.	<i>North Henderson.</i>	81 D.
Robinson, Charles Wirt,	(<i>Cook Academy.</i>) II yr.	<i>North Hector, N. Y.</i>	47 D.
Robinson, Ulysses G.,	(<i>Colgate, four years.</i>) I yr.	<i>Englewood.</i>	5604 Wentworth av.
Schlamann, Ernest Alfred,	(<i>Indiana State Normal.</i>) II yr.	<i>Terre Haute, Ind.</i>	88 D.
Smith, Charles Houston,	(<i>Michigan State Normal School.</i>) I yr.	<i>Chicago.</i>	109 South Leavitt st.
Smith, Thaddeus L.,	(<i>Moody's Bible Institute.</i>) III yr.	<i>Millburn.</i>	Washington Park Ho- tel.
Speicher, John Gabriel,	M.D. (<i>University of Iowa</i>) '83. II yr.	<i>Hudson, Ia.</i>	272, 90th st.
Stewart, John Henry,	(<i>Morgan Park Theological Seminary.</i>) III yr.	<i>Newcastle-on-Tyne, Eng.</i>	145 D.
Stucker, Edwin Stanton,	(<i>Morgan Park Theological Seminary,</i> <i>Ottawa University.</i>) III yr.	<i>Aurora.</i>	144 D.
Summers, Marshall Aaron,	(<i>Dennison University</i>) '93. I yr.	<i>Hinckley.</i>	60 D.
Thompson, Thora Maria,	(<i>Pillsbury Academy.</i>) III yr.	<i>Montevideo, Minn.</i>	
Troyer, Leroy Ellsworth,	B.S. (<i>University of Nebraska</i>) '92. I yr.	<i>Dorchester, Neb.</i>	841 West Polk st.
Vreeland, Charles Frank,	(<i>Michigan State Normal School.</i>) II yr.	<i>Michigan City, Ind.</i>	51 D.
West, John Sherman,	B.S. (<i>Massachusetts Agricultural College</i>) '90. I yr.	<i>Belchertown, Mass.</i>	63 D.
Witt, Stephen,	(<i>Hulme Cliff College</i>) '93. I yr.	<i>Emery Down Lynd- hurst, Hants, Eng.</i>	59 D.
Wood, Joel Franklin,	S.B. (<i>Franklin College</i>) '90. II yr.	<i>Smithfield, O.</i>	92 D.
		TOTAL, 45.	

THE DANISH-NORWEGIAN THEOLOGICAL SEMINARY.

NAME.	DEGREE AND PLACE ; YEAR IN DIV. SCHOOL.	HOME ADDRESS.	PRESENT ADDRESS.
Andersen, Hans Peter,	(<i>Morgan Park Scandinavian Academy.</i>) I yr.	<i>Chicago.</i>	107 D.
Andersen, Hans Martin,	(<i>Morgan Park Scandinavian Academy.</i>) II yr.	<i>Arondal, Norway.</i>	98 D.
Borsheim, Sjur Olson,	(<i>Morgan Park Scandinavian Academy.</i>) II yr.	<i>Bergen, Norway.</i>	98 D.
Hansen, Theodore,	(<i>Morgan Park Scandinavian Academy.</i>) I yr.	<i>Oconomowoc, Wis.</i>	115 D.
Johnson, Edward Peter,	(<i>Morgan Park Scandinavian Academy.</i>) III yr.	<i>Minneapolis, Minn.</i>	119 D.
Nielsen, Martin,	(<i>Morgan Park Scandinavian Academy.</i>) I yr.	<i>Alden P. O., Minn.</i>	107 D.
Overgaard, Peder Pedersen,	(<i>Morgan Park Scandinavian Academy.</i>) I yr.	<i>Bjarko, Norway.</i>	97 D.
Rasmussen, Lars,	(<i>Morgan Park Scandinavian Academy.</i>) I yr.	<i>Berton, S. Dak.</i>	115 D.
		TOTAL, 8.	

THE SWEDISH THEOLOGICAL SEMINARY.

NAME.	DEGREE AND PLACE ; YEAR IN DIV. SCHOOL.	HOME ADDRESS.	PRESENT ADDRESS.
Berglund, Magnus,	(<i>Morgan Park Scandinavian Academy.</i>) II yr.	<i>Dekalb.</i>	34 D.
Carlson, Sven Gustaf,	(<i>Morgan Park Scandinavian Academy.</i>) I yr.	<i>Swea, Ia.</i>	117 D.
Carlson, John Amandus,	(<i>Morgan Park Scandinavian Academy.</i>) I yr.	<i>New York, N. Y.</i>	117 D.
Clint, Rudolf Anton,	(<i>Morgan Park Scandinavian Academy.</i>) I yr.	<i>Jamestown, N. Y.</i>	114 D.
Johnson, John Daniel,	(<i>Morgan Park Scandinavian Academy.</i>) I yr.	<i>Litchfield, Minn.</i>	114 D.

THE QUARTERLY CALENDAR.

NAME.	DEGREE AND PLACE; YEAR IN DIV. SCHOOL.	HOME ADDRESS.	PRESENT ADDRESS.
Lawrence, Antone Oliver,	(<i>Morgan Park Scandinavian Academy.</i>) II yr.	<i>Omaha, Neb.</i>	111 D.
Lindblad, Edward Sigurd,	(<i>Morgan Park Scandinavian Academy.</i>) II yr.	<i>Oakland, Neb.</i>	101 D.
Nelson, Sven August,	(<i>Morgan Park Scandinavian Academy.</i>) II yr.	<i>Kiron, Ia.</i>	113 D.
Nelson, Swaney August,	(<i>Morgan Park Scandinavian Academy.</i>) I yr.	<i>Minneapolis, Minn.</i>	118 D.
Nilson, Carl Anton,	(<i>Morgan Park Scandinavian Academy.</i>) II yr.	<i>Chicago.</i>	113 D.
Nylin, Carl Emil,	(<i>Morgan Park Scandinavian Academy.</i>) I yr.	<i>Kansas City, Mo.</i>	116 D.
Olson, Lewis Ernest,	(<i>Morgan Park Scandinavian Academy.</i>) I yr.	<i>Forest City, Ia.</i>	118 D.
Sandell, Victor,	(<i>Morgan Park Scandinavian Academy.</i>) I yr.	<i>Iron River, Mich.</i>	116 D.
TOTAL, 13.			

THE UNIVERSITY COLLEGES.

NAME.	COLLEGE ; YEAR.	SCHOOL OR INST'R.	HOME ADDRESS.	PRESENT ADDRESS.
Barnes, Samuel Denham,	S.B., II yr.	<i>Beloit College.</i>	<i>Chicago.</i>	3617 Prairie av.
Behan, Warren Palmer,	A.B., II yr.	<i>Beloit College.</i>	<i>Chicago.</i>	448 Bowen av.
Blackmarr, Frank Hamlin,	S.B., II yr.	<i>Alleghany College, James-</i> <i>town, N. Y.</i>	<i>Englewood.</i>	613 Chestnut st.
Boomer, Jennie Kathryn,	Ph.B., II yr.	<i>University of Michigan.</i>	<i>Chicago.</i>	353 East 46th st.
Castle, Mary,	Ph.B., II yr.	<i>Bucknell University.</i>	<i>Alexandria, O.</i>	5440 Monroe av.
Chadbourn, Frank Wesley,	A.B., II yr.	<i>University of Rochester.</i>	<i>Columbus, Wis.</i>	5722 Kimbark av.
Chandler, William Wilford	A.B., I yr.	<i>William Jewell College.</i>	<i>Kansas City.</i>	5853 Wabash av.
Church, Harry Victor,	Ph.B., II yr.	<i>College of Emporia.</i>	<i>Burlington, Kans.</i>	12 Sn.
Curtis, John Birdsey,	A.B., II yr.	<i>University of Michigan.</i>	<i>Chicago.</i>	7437 Nutt av.
Daniels, Mary Lucretia,	A.B., II yr.	<i>Vassar College.</i>	<i>New Haven, Ct.</i>	26 Kl.
Dougherty, Mabel,	A.B., I yr.	<i>University of Michigan.</i>	<i>Peoria.</i>	5 F.
Eastman, Frederick Wilson,	A.B., I yr.	<i>University of Rochester.</i>	<i>Pearl Creek, N. Y.</i>	5835 Drexel av.
Ellis, Hallie Centennial,	A.B., II yr.	LL.B. (<i>University of</i> <i>Michigan</i>) '90; LL.M. (<i>Ibid.</i>) '92.	<i>Freeport.</i>	5804 Rosalie ct.
Fryer, John Gayton,	A.B., II yr.	<i>Brown University.</i>	<i>Chicago.</i>	578, E. 60th st.
Guyer, Michael Frederic,	S.B., II yr.	<i>Plattsburg High School.</i>	<i>Plattsburg, Mo.</i>	5425 Cottage Grove av.
Hay, Mary,	Ph.B., I yr.	<i>Butler University.</i>	<i>Englewood.</i>	6214 May st.
Heil, John Henry,	A.B., II yr.	<i>Northwestern University.</i>	<i>Chicago.</i>	3816 Rhodes av.
Hoebeke, Cornelius James,	A.B., I yr.	<i>Kalamazoo College.</i>	<i>Kalamazoo, Mich.</i>	15 Sn.
Hubbard, Marion Elizabeth,	S.B., I yr.	<i>Mt. Holyoke College.</i>	<i>McGregor, Ia.</i>	23 F.
Hulbert, Ettie Louise,	Ph.B., I yr.	<i>University of Michigan.</i>	<i>Morgan Park.</i>	35 K.
Kohlsaas, Philemon Bulkley,	S.B., II yr.	<i>Northwestern University.</i>	<i>Chicago.</i>	271 Ashland Boul.
Kruse, William Henry,	A.B., I yr.	<i>Concordia College.</i>	<i>Beecher.</i>	1706, 51st st.
Lambert, Lillian Vitalique,	S.B., I yr.	<i>Penn College, Ia.</i>	<i>What Cheer, Ia.</i>	5612 Drexel av.
Lanning, John Lane,	Ph.B., II yr.	<i>Illinois College.</i>	<i>Petersburg.</i>	Hotel Harcourt.
Livingstone, Katharine Agnes,	Ph.B., I yr.	<i>University of Minnesota.</i>	<i>LaCrosse, Wis.</i>	23 B.
Logie, Alfred Ernest,	A.B., II yr.	<i>Pomona College, Cal.</i>	<i>Redlands, Cal.</i>	Grand Crossing.
Lozier, Horace Gillette,	A.B., I yr.	<i>Northwestern University.</i>	<i>Mt. Vernon, Ia.</i>	50 Sn.
Marot, Mary Louise,	S.B., II yr.	<i>Wellesley College.</i>	<i>Dayton, O.</i>	2 F.
McCafferty, Lulu,	S.B., I yr.	<i>Central College.</i>	<i>Quincy.</i>	5812 Drexel av.
McMahan, Una,	A.B., I yr.	<i>Smith College.</i>	<i>Chicago.</i>	5478 Woodlawn av.
Moran, Thomas William,	Ph.B., II yr.	<i>University of Michigan.</i>	<i>Chicago.</i>	4710 Vincennes av.
Morgan, Edwin,	A.B., II yr.	<i>Bucknell University.</i>	<i>East Stroudsburg, Pa.</i>	5623 Drexel av.
Northrup, Alfred Sayles,	A.B., II yr.	<i>University of Michigan.</i>	<i>Chicago.</i>	55 Sn.
Osgood, William Pleasants,	S.B., I yr.	<i>Northwestern University.</i>	<i>Austin.</i>	135 D.
Pierce, Earl Vaydor,	A.B., II yr.	<i>Sioux Falls University.</i>	<i>Ipswich, S. D.</i>	46 Sn.
Prescott, William Howard,	Ph.B., II yr.	<i>Western Reserve University.</i>	<i>Cleveland, O.</i>	5620 Ellis av.
Radford, Maude Lavenia,	Ph.B., II yr.	<i>Ingham College, N. Y.</i>	<i>Le Roy, N. Y.</i>	3801 Prairie av.
Ricketts, Charles Walter,	A.B., I yr.	<i>University of Michigan.</i>	<i>Charleston.</i>	5490 Monroe av.
Roosa, Howard,	A.B., II yr.	<i>Yale University.</i>	<i>Rosendale, N. Y.</i>	5506 Monroe av.
Scovel, Louise Claire,	Ph.B., I yr.	<i>Wooster University.</i>	<i>Chicago.</i>	3911 Ellis av.
Spalding, Mary Doane,	Rh.B., I yr.	<i>Cornell University.</i>	<i>Brooklyn, N. Y.</i>	38 F.
Taylor, Thomas Jackson,	A.B., II yr.	<i>Missouri State University.</i>	<i>St. Louis, Mo.</i>	5836 Drexel av.
Templeton, Howard,	A.B., I yr.	<i>Northern Indiana Nor-</i> <i>mal School.</i>	<i>Canton, O.</i>	4 G.
Walker, Florence Mercy,	Ph.B., II yr.	<i>Ingham University, N. Y.</i>	<i>Le Roy, N. Y.</i>	43 F.
Wilkinson, Arthur Cleaver,	A.B., II yr.	<i>University of Wisconsin.</i>	<i>Madison, Wis.</i>	5506 Monroe av.
Willis, Henry Parker,	A.B., II yr.	<i>Western Reserve University.</i>	<i>Racine, Wis.</i>	5551 Lexington av.
Wyant, Adam Martin,	A.B., I yr.	<i>Bucknell University, Pa.</i>	<i>Adrian, Pa.</i>	26 Sn.
Zoethout, William,	A.B., I yr.	<i>Hope College, Mich.</i>	<i>Roseland.</i>	Roseland.

THE ACADEMIC COLLEGES.

NAME.	COLLEGE ; YEAR.	SCHOOL OR INST ^r .R.	HOME ADDRESS.	PRESENT ADDRESS.
Adkinson, Henry Magee,	A.B., II yr.	<i>Englewood High School.</i>	<i>Chicago.</i>	5552 Wentworth av.
Agerton, Harriet Coe,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Lima, O.</i>	B.
Alschuler, Leon,	Ph.B., I yr.	<i>South Division High School.</i>	<i>Chicago.</i>	2216 Wabash av.
Apps, Elizabeth,	Ph.B., I yr.	<i>South Side School.</i>	<i>Chicago.</i>	2551 South Park av.
Arnold, Oswald James,	Ph.B., II yr.	<i>No. Division High School.</i>	<i>Chicago.</i>	24 Maple st.
Atwood, Harry Fuller,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Hay City, Kans.</i>	9 Sn.
Atwood, Wallace Walter,	Ph.B., II yr.	<i>W. Division High School.</i>	<i>Chicago.</i>	4531 Forestville av.
Axelson, Gustave Wilhelm,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Morgan Park.</i>	53 Sn.
Bachelé, Cecil V.,	S.B., II yr.	<i>Chicago Academy.</i>	<i>Chicago.</i>	7 G.
Baird, Mary Brooks,	A.B., II yr.	<i>Southern Kansas Academy.</i>	<i>Eureka, Kans.</i>	4589 Oakenwald av.
Baker, Georgia Cary,	Ph.B., I yr.	<i>Cornell University.</i>	<i>Harrisville, N. Y.</i>	5316 Jefferson av.
Ballou, Susan Helen,	Ph.B., I yr.	<i>Saint Katharine's Hall.</i>	<i>Davenport, Ia.</i>	5558 Drexel av.
Barker, Burt Brown,	A.B., I yr.	<i>Willamette University.</i>	<i>Salem, Oregon.</i>	4806 St. Lawrence av.
Barnard, Harrison B.,	A.B., II yr.	<i>Wooster University.</i>	<i>Englewood.</i>	510 62d st.
Barnes, Frederick Robertson,	A.B., II yr.	<i>Fargo College.</i>	<i>Campbell, Minn.</i>	6013 Ellis av.
Barrett, Charles Raymond,	Ph.B., I yr.	<i>Saratoga High School.</i>	<i>Saratoga Springs, N. Y.</i>	24 Sn.
Barrett, Saxton,	S.B., II yr.	<i>So. Division High School.</i>	<i>Chicago.</i>	3230 Calumet av.
Barrett, Lu Eaves,	Ph.B., II yr.	<i>Henderson High School.</i>	<i>Sacramento, Ky.</i>	41 F.
Batt, Max,	Ph.B., I yr.	<i>So. Division High School.</i>	<i>Chicago.</i>	3752 Elmwood Place.
Beach, Clinton Stilwell,	S.B., I yr.	<i>Parr Preparatory.</i>	<i>Chicago.</i>	57 Bryant av.
Beatty, Maria,	A.B., II yr.	<i>Lake High School.</i>	<i>Chicago.</i>	4444 Emerald av.
Bell, Glenrose M.,	Ph.B., II yr.	<i>Ferry Hall, Lake Forest.</i>	<i>Chicago.</i>	5810 Washington av.
Bennett, Esther,	Ph.B., I yr.	<i>Smith College.</i>	<i>Chicago.</i>	F.
Bennett, Lucy Lovejoy,	A.B., II yr.	<i>Evanston High School.</i>	<i>Evanston.</i>	Hotel Barry.
Bishop, William Reed,	Ph.B., I yr.	<i>N. Y. State Normal School.</i>	<i>Oswego, N. Y.</i>	5737 Kimbark av.
Bliss, Charles King,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Longwood.</i>	Longwood.
Bliss, Gilbert Ames,	S.B., I yr.	<i>Hyde Park High School.</i>	<i>Chicago.</i>	4528 Lake av.
Bond, William Scott,	A.B., I yr.	<i>Preparatory Beloit College.</i>	<i>Chicago.</i>	4025 Drexel boul.
Brandt, Berkeley,	A.B., II yr.	<i>Allen's Academy.</i>	<i>Chicago.</i>	1316 Michigan av.
Breden, Waldo,	Ph.B., I yr.	<i>Jamestown High School,</i>	<i>N. Y. Santa Fe, N. M.</i>	6640 Oglesby av.
Broek, Herman John,	A.B., I yr.	<i>Hope College.</i>	<i>South Holland.</i>	6837 Perry av.
Brown, James Scott,	A.B., I yr.	<i>Omaha High School.</i>	<i>Chicago.</i>	4052 Indiana av.
Brown, Louise,	A.B., II yr.	<i>Phillips Academy, Andover, Mass.</i>	<i>Elgin.</i>	222 Marshfield av.
Browne, Agnes May,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Morgan Park.</i>	Morgan Park.
Butler, Demia,	Ph.B., II yr.	<i>Girls' Classical School, Indianapolis.</i>	<i>Indianapolis, Ind.</i>	Kl.
Campbell, John Tyler,	S.B., II yr.	<i>Washburn College, Topeka, Kans.</i>	<i>Cheney, Kans.</i>	5425 Cottage Grove av.
Campbell, Joseph White,	Ph.B., I yr.	<i>Phillips Academy, Andover, Mass.</i>	<i>Cambridge, O.</i>	57th st. & Madison av.
Caraway, Henry Reat,	Ph.B., II yr.	<i>Northwestern University.</i>	<i>Tuscola.</i>	5700 Kimbark av.
Carpenter, Paul Fant,	Ph.B., I yr.	<i>Coe College.</i>	<i>Cedar Rapids, Ia.</i>	Sn.
Carroll, Percy Peyton	Ph.B., II yr.	<i>Hanover College, Ind.</i>	<i>Marion, Ind.</i>	20 G.
Chace, Henry Thurston, Jr.,	S.B., II yr.	<i>Hyde Park High School.</i>	<i>Chicago.</i>	5740 Rosalie ct.
Chamberlin, Elizabeth,	Ph.B., I yr.	<i>South Side School.</i>	<i>Chicago.</i>	2311 Indiana av.
Chamberlin, John Clark, Jr.,	A.B., I yr.	<i>South Side School.</i>	<i>Chicago.</i>	13 G.
Chollar, Wilbur Thomas,	S.B., I yr.	<i>Carlton College.</i>	<i>Red Falls, Minn.</i>	Hotel Harcourt.
Clark, Faith Benita,	Ph.B., II yr.	<i>Rockford Seminary.</i>	<i>Rockford, Ill.</i>	B.
Clarke, Henry L.,	Ph.B., II yr.	<i>So. Division High School.</i>	<i>Chicago.</i>	3338 Calumet av.
Cook, Agnes Spofford,	A.B., I yr.	<i>Wellesley College.</i>	<i>Normal.</i>	5 F.
Coolidge, Elizabeth Teasdale,	S.B., II yr.	<i>So. Division High School.</i>	<i>Chicago.</i>	6036 Oglesby av.

RECORDS.

NAME.	COLLEGE; YEAR.	SCHOOL OR INST'R.	HOME ADDRESS.	PRESENT ADDRESS.
Cornish, Charlotte Harrison,	Ph.B., I yr.	<i>Morgan Park Academy.</i>	<i>Gillette, N. J.</i>	44 B.
Cosgrove, Marion Vernon,	A.B., I yr.	<i>South Side Preparatory School.</i>	<i>Chicago.</i>	6315 Oglesby av.
Crafts, Helen,	Ph.B., I yr.	<i>Wellesley College.</i>	<i>Austin.</i>	30 Kl.
Crandall, Vinnie May,	Ph.B., I yr.	<i>Harvard School.</i>	<i>Chicago.</i>	4443 Berkeley av.
Crouse, Daniel Howard,	A.B., I yr.	<i>Lawrenceville.</i>	<i>Chicago.</i>	2231 Prairie av.
De Graff, Cora Eames,	A.B., II yr.	<i>Evansville Classical School.</i>	<i>Englewood.</i>	6939 Wright st.
Dibell, Charles Dorrance,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Joliet.</i>	39 Sn.
Dignan, Frank Winans,	A.B., I yr.	<i>Hyde Park High School.</i>	<i>Chicago.</i>	5853 Indiana av.
Dingee, Gertrude Parker,	A.B., II yr.	<i>Oshkosh High School.</i>	<i>Racine, Wis.</i>	B.
Dirks, Lillian Augusta,	A.B., I yr.	<i>Jennings Seminary, Aurora.</i>	<i>LaGrange.</i>	46 Kl.
Diver, Dora May,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Waukegan.</i>	Kl.
Dornsife, Samuel Seilor,	A.B., I yr.	<i>Morgan Park Academy.</i>	<i>Chicago.</i>	521 45th st.
Dougherty, Horace Raymond,	A.B., I yr.	<i>University of Michigan.</i>	<i>Peoria,</i>	30 Sn.
Dougherty, Ralph Leland,	A.B., I yr.	<i>Peoria High School.</i>	<i>Peoria.</i>	Sn.
Downing, Alice May,	A.B., I yr.	<i>Wellesley College.</i>	<i>Aurora.</i>	23 Kl.
Drew, William Prentiss,	A.B., I yr.	<i>Englewood High School.</i>	<i>Chicago.</i>	535 67th st.
Dudley, Raymond Carleton,	Ph.B., II yr.	<i>Morgan Park Academy.</i>	<i>Chicago.</i>	2613 Indiana av.
Durand, Herbert Cassius,	A.B., I yr.	<i>Hyde Park High School.</i>	<i>Chicago.</i>	435 East 41st st.
Ellis, Mary Virginia,	A.B., I yr.	<i>Hannibal High School.</i>	<i>Hannibal, Mo.</i>	21 F.
Evans, Edward Price,	A.B., I yr.	<i>Cook Academy.</i>	<i>Chicago.</i>	5620 Ellis av.
Fish, Leila Gladys,	Ph.B., I yr.	<i>So. Division High School.</i>	<i>Chicago.</i>	3226 Calumet av.
Flint, Joseph Marshall,	S.B., I yr.	<i>Lake Forest Academy.</i>	<i>Chicago.</i>	265 E. Indiana st.
Flint, Nott W.,	A.B., I yr.	<i>Lake Forest Academy.</i>	<i>Chicago.</i>	265 E. Indiana st.
Ford, Margaret,	A.B., I yr.	<i>South Side School.</i>	<i>Chicago.</i>	3756 Ellis av.
Foster, Edith Burnham,	Ph.B., II yr.	<i>W. Division High School.</i>	<i>Chicago.</i>	24 B.
Friedman, Herbert Jacob,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Chicago.</i>	3602 Prairie av.
Friedman, Joseph C.,	Ph.B., II yr.	<i>So. Division High School.</i>	<i>Chicago.</i>	3916 Prairie av.
Furness, Mary,	A.B., II yr.	<i>Lyons High School.</i>	<i>De Funiak Springs, Fla.</i>	5657 Cottage Grove av.
Gale, Henry Gordon,	A.B., II yr.	<i>Aurora High School.</i>	<i>Aurora.</i>	20 Sn.
Gardner, Effie A.,	Ph.B., II yr.	<i>Morgan Park Academy.</i>	<i>Chicago.</i>	5513 Madison av.
Gatzert, Blanche,	Ph.B., I yr.	<i>So. Division High School.</i>	<i>Chicago.</i>	3628 Grand boul.
Gettys, Cora Margaret,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Englewood.</i>	5855 Wright st.
Gilpatrick, Rose Adelle,	Ph.B., I yr.	<i>Colby University.</i>	<i>Hallowell, Me.</i>	41 B.
Gleason, Fred,	Ph.B., I yr.	<i>University of Iowa.</i>	<i>Englewood.</i>	330 Chestnut st
Goldberg, Hyman Elijah,	S.B., II yr.	<i>W. Division High School.</i>	<i>Chicago.</i>	348 S. Clark st.
Goodhue, Emma Louise,	Ph.B., II yr.	<i>Carleton College.</i>	<i>Chicago.</i>	54 Bryant av.
Goodman, Charles A.,	A.B., I yr.	<i>South Side School.</i>	<i>Chicago.</i>	13 G.
Grant, Forest,	A.B., I yr.	<i>Lake Forest College.</i>	<i>Stevens Point, Wis.</i>	5620 Ellis av.
Graves, Eva Bronson,	Ph.B., I yr.	<i>Harvard School.</i>	<i>Chicago.</i>	4526 Woodlawn av.
Graves, Laura Belcher,	Ph.B., I yr.	<i>Harvard School.</i>	<i>Memphis, Tenn.</i>	4526 Woodlawn av.
Graves, Paul Spencer,	A.B., II yr.	<i>Evanston High School.</i>	<i>Evanston.</i>	5620 Ellis av.
Guthrie, Emily Wilson,	A.B., I yr.	<i>South Side School.</i>	<i>Chicago.</i>	6416 Peoria st.
Gwin, James Madison,	Ph.B., I yr.	<i>Harvard School.</i>	<i>Chicago.</i>	4060 Ellis av.
Haft, Della May,	Ph.B., II yr.	<i>Morgan Park Academy.</i>	<i>Chicago.</i>	2220 Prairie av.
Hale, Berdena Mabel,	A.B., II yr.	<i>Wayland Academy.</i>	<i>Omro, Wis.</i>	Hotel Barry.
Hamilton, Aletheia,	A.B., I yr.	<i>Ohio Wesleyan University.</i>	<i>Chicago.</i>	4720 Madison av.
Hartley, Elmer Ellsworth,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Gurnee.</i>	59 Sn.
Hay, Fannie Steele,	Ph.B., I yr.	<i>Butler University.</i>	<i>Englewood.</i>	5626 Jefferson av.
Hancock, Mary Bertha,	Ph.B., I yr.	<i>Vassar College.</i>	<i>Dubuque, Ia.</i>	F.
Hering, Frank Earle,	Ph.B., I yr.	<i>Williamsport High School.</i>	<i>Williamsport, Pa.</i>	45 Sn.

NAME.	COLLEGE ; YEAR.	SCHOOL OR INST'R.	HOME ADDRESS.	PRESENT ADDRESS.
Hewitt, Helen Orme,	Ph.B., I yr.	<i>South Side School.</i>	<i>Chicago.</i>	5535 Lexington av.
Hewitt, Henry Harwood,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Chicago.</i>	5535 Lexington av.
Hobart, Ralph Hastings,	S.B., I yr.	<i>Beloit College.</i>	<i>Chicago.</i>	5110 East End av.
Holloway, Harry Cyrus,	S.B., II yr.	<i>Chicago Manual Training School.</i>	<i>Chicago.</i>	3436 Prairie av.
Hopkins, Frances Inez,	Ph.B., I yr.	<i>Wellesley College.</i>	<i>Pueblo, Col.</i>	31 F.
Hosic, James Fleming,	Ph.B., I yr.	<i>Nebraska State Normal School.</i>	<i>Tecumseh, Neb.</i>	64 Sn.
Howard, Harry Cooper,	Ph.B., I yr.	<i>Kalamazoo College.</i>	<i>Kalamazoo, Mich.</i>	5 Sn.
Hubbard, Mildred,	Ph.B., I yr.	<i>Mt. Holyoke College.</i>	<i>Winchester.</i>	38 B.
Hughes, Robert Lee,	A.B., II yr.	<i>Mount Hermon School, Massachusetts.</i>	<i>Prospect, N. Y.</i>	324, 57th st.
Hulbert, Clara Delia,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Morgan Park.</i>	K.
Hull, Susan Hess,	Ph.B., II yr.		<i>Chicago.</i>	578, 60th st.
Hulshart, John,	A.B., II yr.	<i>Peddie Institute, N. J.</i>	<i>Lakewood, N. J.</i>	46 Sn.
Hurlbut, Lila Cole,	Ph.B., II yr.	<i>Omaha High School.</i>	<i>Chicago.</i>	4158 Calumet av.
Hurlbutt, Wells Henry, Jr.,	A.B., I yr.	<i>Springfield High School.</i>	<i>Geneva, O.</i>	5620 Ellis av.
Hutchings, Josephine L.,	Ph.B., I yr.	<i>Miss Lupton's School.</i>	<i>Madison, Ind.</i>	44 F.
Hyman, Isaac Barney,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Chicago.</i>	5 G.
Ickes, Harold Le Claire,	A.B., I yr.	<i>Englewood High School.</i>	<i>Altoona, Pa.</i>	230, 65th st.
Jackson, Cora Belle,	A.B., II yr.	<i>Howard University, Washington, D. C.</i>	<i>Chicago.</i>	5429 Jackson av.
Jenkinson, Harriet E.,	Ph.B., I yr.	<i>South Side School.</i>	<i>Chicago.</i>	410, 64th st.
Johann, Lillie,	S.B., I yr.	<i>Springfield High School.</i>	<i>Springfield.</i>	23 K.
Johnson, Ralph Hiram,	A.B., II yr.	<i>Kenyon Military Academy, Ohio.</i>	<i>Marion, Ind.</i>	37 Sn.
Johnson, Victor Oscar,	A.B., I yr.	<i>Northwestern University.</i>	<i>Genoa, Neb.</i>	New Boston Hotel.
Jones, Nellie Lander,	Ph.B., I yr.	<i>Mt. Holyoke College.</i>	<i>Peoria.</i>	5415 Cottage Grove av.
Jordan, Herbert Ray,	Ph.B., I yr.	<i>Morgan Park Academy.</i>	<i>Chicago.</i>	5742 Monroe av.
Kane, Theodosia,	Ph.B., I yr.	<i>Chicago Academy.</i>	<i>Chicago.</i>	Kl.
Karpen, Julius,	Ph.B., I yr.	<i>University of Illinois.</i>	<i>Chicago.</i>	36 Potomac av.
Keeler, Harry,	S.B., I yr.	<i>University of Illinois.</i>	<i>Chicago.</i>	4325 Langley av.
Kellogg, Edith Sarah,	S.B., II yr.	<i>Academy Iowa College.</i>	<i>Correctionville, Ia.</i>	2978 Indiana av.
Kells, Mabel,	A.B., I yr.	<i>Sauk Centre High School.</i>	<i>Sauk Centre, Minn.</i>	F.
Kennedy, Jennette,	Ph.B., I yr.	<i>Ferry Hall Seminary.</i>	<i>Rib Lake, Wis.</i>	21 Kl.
Kerr, Mary Luella,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Washington, Iowa.</i>	B.
Klock, Martha Frances,	A.B., I yr.	<i>Smith College.</i>	<i>Oneida, N. Y.</i>	30 B.
Knapp, George Nelson,	S.B., II yr.	<i>University of Wisconsin.</i>	<i>Madison, Wis.</i>	5812 Drexel av.
Lagergren, Gustaf Petrus,	A.B., I yr.	<i>South Side School.</i>	<i>Morgan Park.</i>	Morgan Park, Ill.
Lamay, John,	S.B. II yr.	<i>Northwestern University.</i>	<i>Evanston.</i>	46 Sn.
Lansing, Van Rensselaer,	S.B., II yr.	<i>College of City of N. Y.</i>	<i>Chicago.</i>	5748 Madison av.
Leiser, Joseph,	Ph.B., II yr.	<i>University of Rochester.</i>	<i>Rochester, N. Y.</i>	51 Sn.
Lewis, Mary Catherine,	A.B., I yr.	<i>University of Michigan.</i>	<i>Chicago.</i>	5605 Madison av.
Lewis, Susan Whipple,	A.B., I yr.	<i>University of Michigan.</i>	<i>Chicago.</i>	5605 Madison av.
Liebenstein, Sidney Charles,	Ph.B., I yr.	<i>South Side School.</i>	<i>Chicago.</i>	3740 Forest av.
Lindeblad, Ivan Luther,	A.B., I yr.	<i>Augustana College.</i>	<i>Pullman.</i>	Pullman.
Lingle, Bowman Church,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Chicago.</i>	3144 Vernon av.
Lipskey, Harry Alexander,	Ph.B., II yr.	<i>Morgan Park Academy.</i>	<i>Chicago.</i>	81, 31st st.
Loeb, Ludwig,	S.B., I yr.	<i>No. Division High School.</i>	<i>Chicago.</i>	3924 Prairie av.
Loesch, Angie,	A.B., I yr.	<i>No. Division High School.</i>	<i>Chicago.</i>	17 F.
Lutrell, Estelle,	A.B., I yr.	<i>Christian University.</i>	<i>Canton, Mo.</i>	5810 Drexel av.
Macomber, Charles Coombs,	Ph.B., I yr.	<i>Simpson College.</i>	<i>Carroll, Ia.</i>	36, 46th st.
Mandel, Edwin Frank,	A.B., I yr.	<i>Harvard School.</i>	<i>Chicago.</i>	5 G.
Mandeville, Paul,	A.B., I yr.	<i>Englewood High School.</i>	<i>Chicago.</i>	6410 Stewart av.

RECORDS.

NAME.	COLLEGE ; YEAR.	SCHOOL OR INST'R.	HOME ADDRESS.	PRESENT ADDRESS.
Mannhardt, William,	A.B., I yr.	<i>W. Division High School.</i>	<i>Chicago.</i>	10 Sn.
Marsh, Isaac Clarence,	A.B., I yr.	<i>South Side School.</i>	<i>Chicago.</i>	47 Sn.
Maynard, Mary Dunklee,	Ph.B., I yr.	<i>Vassar College.</i>	<i>Milwaukee, Wis.</i>	20 B.
McCaw, John Alexander,	A.B., I yr.	<i>Woodstock College.</i>	<i>Woodstock.</i>	5622 Ellis av.
McClenahan, Henry Stewart,	S.B.,-I yr.	<i>Lake Forest College.</i>	<i>Macomb.</i>	5817 Madison av.
McClintock, Anna James,	Ph.B., II yr.	<i>Millersburgh Female College.</i>	<i>Millersburgh, Ky.</i>	Kl.
McClintock, Samuel Sweeney,	Ph.B., II yr.	<i>Kentucky University.</i>	<i>Lexington, Ky.</i>	5745 Madison av.
McCorkle, Wood F.,	A.B., I yr.	<i>South Side School.</i>	<i>Chicago.</i>	963 Jackson boul.
McGillivray, Clifford Bottsford,	S.B., II yr.	<i>Morgan Park Academy.</i>	<i>Chicago.</i>	3727 Vernon av.
McWilliams, Anna Louise,	Ph.B., I yr.	<i>Ferry Hall Seminary.</i>	<i>Odell.</i>	K.
McWilliams, Mary Elizabeth,	Ph.B., I yr.	<i>Ferry Hall Seminary.</i>	<i>Odell.</i>	16 Kl.
Messick, Elizabeth,	Ph.B., II yr.	<i>Miss Higbee's Academy, Tenn.</i>	<i>Memphis, Tenn.</i>	15 Kl.
Minard, Frederick Horace,	S.B., II yr.	<i>Drury College.</i>	<i>Chicago.</i>	5620 Ellis av.
Minnick, Arthur,	A.B., II yr.	<i>Englewood High School.</i>	<i>Chicago.</i>	6029 Ellis av.
Mitchell, Wesley Clair,	A.B., II yr.	<i>Decatur High School.</i>	<i>Decatur.</i>	2310 Indiana av.
Moffatt, William Eugene,	A.B., II yr.	<i>No. Division High School.</i>	<i>Chicago.</i>	4618 State st.
Moore, John Howard,	A.B., I yr.	<i>Oskaloosa College, Ia.</i>	<i>Cawker City, Kans.</i>	5558 Drexel av.
Morgan, Marion Sherman,	Ph.B., I yr.	<i>Smith College.</i>	<i>Chicago.</i>	F.
Mosser, Stacy Carroll,	A.B., I yr.	<i>Hedding College.</i>	<i>Abingdon.</i>	69 D.
Murphy, Henry Constance,	Ph.B., II yr.	<i>University of Notre Dame.</i>	<i>Woodstock.</i>	64 Sn.
Neel, Carr Baker,	S.B., II yr.	<i>Oakland High School, Cal.</i>	<i>Chicago.</i>	3718 Ellis av.
Nelson, Jennie Louisa,	Ph.B., I yr.	<i>Columbian College, Washington, D. C.</i>	<i>Helena, Montana.</i>	21 F.
Nichols, Frederick Day,	A.B., II yr.	<i>Cedar Valley Seminary, Ia.</i>	<i>Osage, Ia.</i>	54 Sn.
Odell, Jean Ingelow,	A.B., I yr.	<i>W. Division High School.</i>	<i>Chicago.</i>	903 Kedzie av.
Oglevee, Nannie Gourley,	Ph.B., I yr.	<i>Wells College.</i>	<i>Columbus, O.</i>	3000 Indiana av.
Osgood, Ella Maria,	Ph.B., II yr.	<i>Oneida High School, N. Y.</i>	<i>Verona, N. Y.</i>	30 B.
Packer, Anna Sophia,	A.B., I yr.	<i>Oberlin College.</i>	<i>Chicago.</i>	195 Bowen av.
Peabody, Earll William,	Ph.B., II yr.	<i>Morgan Park Academy.</i>	<i>Chicago.</i>	5747 Madison av.
Perkins, Mary,	Ph.B., I yr.	<i>W. Division High School.</i>	<i>Chicago.</i>	28 Kl.
Pershing, Ward Beecher,	S.B., I yr.	<i>South Side School.</i>	<i>Chicago.</i>	337, 53d st.
Peterson, Harvey Andrew,	A.B., I yr.	<i>St. Louis High School.</i>	<i>St. Louis, Mo.</i>	34 Sn.
Pienkowsky, Arthur Thaddeus,	A.B., I yr.	<i>Morgan Park Academy.</i>	<i>Chicago.</i>	4427 Calumet av.
Pierce, Lucy Frances,	A.B., I yr.	<i>Vassar College.</i>	<i>Chicago.</i>	4847 Grand boul.
Pike, Charles Sumner,	A.B., II yr.	<i>So. Division High School.</i>	<i>Chicago.</i>	3908 Ellis av.
Plant, Thomas Jefferson,	A.B., I yr.	<i>Lake High School.</i>	<i>Chicago.</i>	3915 Dearborn st.
Pollock, Elmer Allison,	A.B., II yr.	<i>Lake Forest University.</i>	<i>Good Hope.</i>	464, 41st st.
Porter, Elizabeth,	A.B., I yr.	<i>Lake Erie Seminary.</i>	<i>Cleveland, O.</i>	B.
Porterfield, Cora Maude,	A.B., I yr.	<i>Illinois State Normal University.</i>	<i>Normal.</i>	3715 Langley av.
Purcell, Margaret,	Ph.B., II yr.	<i>College of Emporia, Kans.</i>	<i>Manhattan, Kans.</i>	Kl.
Radford, May Eugenia,	A.B., I yr.	<i>Leroy Union School, N. Y.</i>	<i>Buffalo, N. Y.</i>	3801 Prairie av.
Ramsay, Stanley Matthews,	A.B.,	<i>Williams College.</i>	<i>Cincinnati, O.</i>	5835 Drexel av.
Rand, Philip,	Ph.B., I yr.	<i>Phillips Exeter Academy.</i>	<i>Chicago.</i>	33 Sn.
Rapp, William, Jr.,	Ph.B., II yr.	<i>No. Division High School.</i>	<i>Chicago.</i>	Hotel Harcourt.
Raycroft, Joseph Edward,	A.B.; II yr.	<i>Worcester Academy, Mass.</i>	<i>Boston, Mass.</i>	21 Sn.
Robertson, Stella,	A.B., II yr.	<i>Albion High School, N. Y.</i>	<i>Albion, N. Y.</i>	Kl.
Robinson, Irene Elizabeth,	Ph.B., I yr.	<i>Vassar College.</i>	<i>Englewood.</i>	735, 62d st.
Roche, Cora Emma,	A.B., II yr.	<i>W. Division High School.</i>	<i>Chicago.</i>	Kl.
Rogers, May Josephine,	Ph.B., II yr.	<i>University of Michigan.</i>	<i>Chicago.</i>	5657 Cottage Grove av.
Rothschild, Isaac Solomon,	S.B., I yr.	<i>W. Division High School.</i>	<i>Chicago.</i>	427 Carroll av.
Russell, Loren Milford,	S.B., II yr.	<i>Morgan Park Academy.</i>	<i>Englewood.</i>	6357 Stewart av.

NAME.	COLLEGE ; YEAR.	SCHOOL OR INST'R.	HOME ADDRESS.	PRESENT ADDRESS.
Sampsell, Marshall Emmett,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Chicago.</i>	6851 Wentworth av.
Sass, Louis,	Ph.B., II yr.	<i>W. Division High School.</i>	<i>Chicago.</i>	54 Sn.
Schnelle, Friedrich Oscar,	S.B., II yr.	<i>Real Gymnasium, Lands- hut (Germany).</i>	<i>Görlitz, Germany.</i>	82 D.
Schwarz, Edith Ewing,	Ph.B., I yr.	<i>Englewood High School.</i>	<i>Englewood.</i>	6901 Harvard st.
Sherman, Franklyn Cole,	A.B., I yr.	<i>Cornell College.</i>	<i>Chicago.</i>	4204 Calumet av.
Sherwin, Nanie Annette,	A.B., I yr.	<i>Wellesley College.</i>	<i>Denver, Col.</i>	3033 Groveland av.
Simpson, Burton Jesse,	S.B., II yr.	<i>Morgan Park Academy.</i>	<i>Moline. Canada.</i>	62 Sn.
Sincere, Victor Washington,	A.B., I yr.	<i>South Side School.</i>	<i>Chicago.</i>	2974 Wabash av.
Smith, Henry Justin,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Morgan Park:</i>	4406 Ellis av.
Smith, Kenneth Gardner,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Dixon.</i>	5836 Drexel av.
Speer, Henry Dallas,	Ph.B., II yr.	<i>Williams College.</i>	<i>Chicago.</i>	161, 30th st.
Sperans, Joel,	S.B., II yr.	<i>Gymnasium, Taganrog, Russia.</i>	<i>Russia.</i>	16 Sn.
Steigmeyer, Frederick Frank	S.B., I yr.	<i>Buchtel College.</i>	<i>Attica, O.</i>	5612 Drexel av.
Stevens, Raymond William,	A.B., II yr.	<i>South Side School.</i>	<i>Chicago.</i>	3574 Vincennes av.
Stone, Harry Wheeler,	A.B., II yr.	<i>So. Division High School.</i>	<i>Chicago.</i>	3411 Vernon av.
Stowell, Reuben Giles,	S.B., II yr.	<i>No. Division High School.</i>	<i>Chicago.</i>	58 Sn.
Strawn, Myra Hartshorn,	A.B., I yr.	<i>Smith College.</i>	<i>LaSalle.</i>	F.
Swart, Lawrence James de,	A.B., II yr.	<i>Beloit College.</i>	<i>Milwaukee, Wis.</i>	5550 Drexel av.
Tanaka, Kiichi,	Ph.B., I yr.	<i>Kentucky University.</i>	<i>Tokio, Japan.</i>	31 Sn.
Tefft, Nellie Edna,	A.B., I yr.	<i>Elgin High School.</i>	<i>Elgin.</i>	45 Kl.
Thomas, Ida May,	Ph.B., I yr.	<i>Morgan Park Academy.</i>	<i>Sioux City, Ia.</i>	Hotel Barry.
Thomas, Mary Susan,	Ph.B., II yr.	<i>Northwestern University.</i>	<i>Myersdale, Pa.</i>	Students' Hall, Englewood.
Thompson, Emily Churchill,	A.B., I yr.	<i>Lake High School.</i>	<i>Chicago.</i>	4457 Emerald av.
Thompson, Helen Bradford,	Ph.B., I yr.	<i>Englewood High School.</i>	<i>Englewood.</i>	326 Chestnut st.
Todd, Elmer Ely,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Dixon.</i>	5535 Lexington av.
Tolman, Cyrus Fisher, Jr.,	A.B., II yr.	<i>Morgan Park Academy.</i>	<i>Chicago.</i>	41 University Place.
Tooker, Robert Newton, Jr.,	A.B., I yr.	<i>University School.</i>	<i>Chicago.</i>	23 Sn.
Trumbull, Donald Shurtleff,	A.B., I yr.	<i>Hyde Park High School.</i>	<i>Chicago.</i>	4544 Oakwald av.
Van Vliet, Alice,	A.B., II yr.	<i>So. Division High School.</i>	<i>Chicago.</i>	43 B.
Vaughan, L. Brent,	Ph.B., II yr.	<i>Oberlin College.</i>	<i>Swanton, O.</i>	5831 Madison av.
Vaughan, William Cain,	S.B., I yr.	<i>South Side School.</i>	<i>Richmond, Ind.</i>	5475 Kimbark av.
Voight, John Frederick, Jr.,	Ph.B., II yr.	<i>Illinois College.</i>	<i>Mattoon.</i>	26 Sn.
Wales, Henry Whitwell, Jr.,	Ph.B., II yr.	<i>Hyde Park High School.</i>	<i>Lanark.</i>	62, 43d st.
Wallace, Sarah Emma,	A.B., II yr.	<i>Englewood High School.</i>	<i>Englewood.</i>	748, 71st st.
Walling, William English,	S.B., II yr.	<i>Hyde Park High School.</i>	<i>Chicago.</i>	4127 Drexel boul.
Walls, Emma Beales,	Ph.B., II yr.	<i>Northwestern University.</i>	<i>Chicago.</i>	4334 Greenwood av.
Webster, Ralph Waldo,	Ph.B., II yr.	<i>Monmouth College.</i>	<i>Monmouth.</i>	5700 Kimbark av.
Weingarten, Frederick Simon,	S.B., II yr.	<i>College of City of N. Y.</i>	<i>Chicago.</i>	3237 Calumet av.
Whitson, Andrew Robinson,	B.S., II yr.	<i>University of Wisconsin.</i>	<i>Northfield, Minn.</i>	5812 Drexel av.
Wiley, Harry Dunlap,	S.B., II yr.	<i>Princeton High School.</i>	<i>Dunlap.</i>	5836 Drexel av.
Williams, Day,	A.B., I yr.	<i>Adalbert College.</i>	<i>Chicago.</i>	77, 39th st.
Williams, John William,	Ph.B., I yr.	<i>Cornell College.</i>	<i>Norwood Park.</i>	Sn.
Willis, Gwendolin Brown,	A.B., II yr.	<i>Racine Academy.</i>	<i>Racine, Wis.</i>	5551 Lexington av.
Williston, Frances Greenwood,	A.B., II yr.	<i>So. Division High School.</i>	<i>Elmhurst.</i>	B.
Winston, Alice,	A.B., I yr.	<i>South Side School.</i>	<i>Chicago.</i>	363, E. 58th st.
Winston, Charles Sumner,	A.B., II yr.	<i>South Side School.</i>	<i>Chicago.</i>	363 East 58th st.
Wolff, Henry D.,	S.B., II yr.	<i>Chicago Academy.</i>	<i>Evanston.</i>	22 Sn.
Wolff, Louis, Jr.,	S.B., II yr.	<i>Chicago Academy.</i>	<i>Chicago.</i>	43 Harcourt Bldg.
Woods, Frank William,	A.B., I yr.	<i>Colorado College.</i>	<i>Colorado Springs, Col.</i>	5800 Jackson av.

NAME.	COLLEGE ; YEAR.	SCHOOL OR INST'R.	HOME ADDRESS.	PRESENT ADDRESS.
Woodward, Vernie Emma,	A.B., II yr.	Meriden High School.	Meriden, Conn.	44 Kl.
Wooley, Paul Gerhardt,	S.B., I yr.	Ohio Wesleyan University.	Chicago.	5748 Kimbark av.
Yarzembski, Vladyslas,	S.B., I yr.	N. W. Division High School.	Chicago.	515 N. Ashland av.
	13		114	
			TOTAL, 249.	

THE UNCLASSIFIED STUDENTS.

NAME.	YEAR.	SCHOOL OR INST'R.	HOME ADDRESS.	PRESENT ADDRESS.
Abbott, Walter Hazelton,	I yr.	Pennington Seminary (N. J.)	Camden, N. J.	5620 Ellis av.
Abells, Harry Delmont,	I yr.	Mt. Hermon (Northfield, Mass.)	Uxbridge, Mass.	46 Sn.
Allen, Arabella Jane,	I yr.	Monticello Seminary.	Chicago.	4050 Grand Boul.
Alling, Harriet Sarah,	I yr.	Oswego Normal and Training School, New York.	Moreland.	5443 Jackson av.
Almy, Mary Tibbits,	I yr.	Norwich Normal School.	Norwich, Conn.	14 Kl.
American, Sadie,	II yr.	Chicago High School.	Chicago.	3130 Vernon av.
Anderson, Esther Lowell,	I yr.	Adelphi Academy (N. Y.)	Chicago.	1345 Noble av.
Austin, Helen Maria,	I yr.	College of France and the Sorbonne.	Illion, N. Y.	42 F.
Barrett, Fred P.,	I yr.	Syracuse University.	Gainsville, N. Y.	5550 Drexel av.
Battis, Annie Louise,	I yr.	Burr & Burton Seminary.	Manchester, Vt.	13 B.
Beardsley, Anna Poole,	I yr.	Fem. High School, Baltimore.	Washington, Ark.	33 F.
Bentley, Anna Riley,	I yr.	Miss Porter's School (Conn.)	Chicago.	2001 Indiana av.
Berry, Maud,	I yr.	Hyde Park High School.	Chicago.	5638 Madison av.
Bowers, Abraham,	II yr.	Mt. Morris College.	St. Joseph.	5747 Lexington av.
Braam, Jacob William,	II yr.	Chicago Institute of Technology.	Chicago.	82 D.
Bray, Anna Chappell, Mrs.	I yr.	University of Indiana.	Chicago.	5709 Drexel av.
Casteel, Mary Elizabeth,	I yr.	Geneseo Collegiate Institute.	Geneseo.	1 F.
Chapin, Lillian,	II yr.	W. Division High School.	Chicago.	5418 Kimbark av.
Clark, Grace Newsome, Mrs.	II yr.	Drury College.	Springfield, Mo.	32 Kl.
Colnon, Aaron Thomas,	I yr.	Oswego High School.	Oswego, N. Y.	2 Sn.
Comstock, Louise Bates,	II yr.	Packer Institute, Brooklyn, N. Y.	Rochester, N. Y.	5740 Monroe av.
Connett, Wesley Langdon,	II yr.	St. Joseph High School (Mo.)	St. Joseph, Mo.	6321 Sheridan av.
Crowther, Elizabeth,	I yr.	Mt. Holyoke Seminary.	Enfield, Mass.	34 B.
D'Ancona, Clarence Phineas,	I yr.	Private Instruction.	Chicago.	3317 Michigan av.
Davis, Alvin Edward,	I yr.	Wayland Academy.	Marinette, Wis.	359 West 65th st.
Davis, Emma Elizabeth,	I yr.	Pennsylvania State Normal School.	Denton, Pa.	17 B.
Dawes, Sarah Louisa,	I yr.	Wheaton Seminary, Norton, Mass.	Petersham, Mass.	13 B.
Dewing, William Henry,	II yr.	Hiram College.	Chicago.	104 D.
Dickerson, Spencer Cornelius,	I yr.	Tillotson Institute, Austin.	Austin, Texas.	6 Sn.
Folsom, Nellie Elmina,	II yr.	St. Lawrence University (N. Y.)	Brookings, S. D.	45 B.
Fox, Clare Delphine,	II yr.	Northern Illinois College.	Bellevue.	3620 Ellis Park.
Froberg, John,	I yr.	South Side School.	Chicago.	37, 29th st.
Fry, Harvey Judson,	I yr.	Canton, Miss.	Chicago.	5632 Ingleside av.
Gallion, Charles Horace,	II yr.	Illinois Wesleyan University.	St. Joseph.	Boston Hotel.
George, Abigail Matilda,	II yr.	Cedar Rapids High School, Iowa.	Chicago.	4744 Kenwood av.
Goodman, Jennie Rebecca,	I yr.	So. Division High School.	Chicago.	4406 Ellis av.
Goodspeed, Edith Maria,	I yr.	Iowa State Normal.	Omaha, Neb.	22 B.
Goss, Mary Lathrop,	II yr.	Plano High School, Illinois.	Plano.	425, 41st st.
Gray, Charlotte C., Mrs.	I yr.	College of Liberal Arts, Chautauqua.	Albany, N. Y.	16 B.
Hallingby, Ole Jr.,	I yr.	Cedar Valley Seminary.	Osage, Ia.	5825 Kimbark av.

THE QUARTERLY CALENDAR.

NAME.	YEAR.	SCHOOL OR INST'R.	HOME ADDRESS.	PRESENT ADDRESS.
Hannan, Louise Mary,	I year.	<i>Hyde Park High School.</i>	<i>Chicago.</i>	5134 Grand Boul.
Hessler, John Charles,	I yr.	<i>Northwestern University.</i>	<i>Chicago.</i>	346, 55th st.
Hill, Elizabeth Gertrude,	I yr.	<i>Mt. Holyoke Seminary.</i>	<i>Red Wing, Minn.</i>	5332 Drexel av.
Hiss, Andrew Emil,	I yr.	<i>Chicago College of Pharmacy.</i>	<i>Chicago.</i>	5435 Kimbark av.
Hubbard, Harry David,	II yr.	<i>Temple College, Philadelphia.</i>	<i>Philadelphia, Pa.</i>	25 G.
Hubbard, Lucius,			<i>South Bend, Ind.</i>	Hotel Harcourt.
Keith, Ella May,	I yr.	<i>Ottawa University.</i>	<i>Ottawa, Kans.</i>	5443 Jackson av.
Kelso, Wilber Madison.	I yr.	<i>Morgantown High School.</i>	<i>Plattsmouth, Neb.</i>	The Barry Hotel.
Kennedy, Mary,	I yr.	<i>Monmouth College.</i>	<i>Franks.</i>	9752 av. K.
Kirtland, Grace Elizabeth,	I yr.	<i>The Morgan School (Conn.)</i>	<i>Saybrook, Conn.</i>	The Harcourt.
Knecht, Otto G. V.	I yr.	<i>University of Michigan.</i>	<i>Los Angeles, Cal.</i>	5474 Greenwood av.
Matz, Evelyn,	II yr.	<i>Chicago High School.</i>	<i>Chicago.</i>	431 Oak st.
MacDougal, Lydia A.,	I yr.	<i>Potsdam State Normal School.</i>	<i>Malone, N. Y.</i>	Kl.
MacRae, Ino,	I yr.		<i>Central Mine, Mich.</i>	2427 Prairie av.
McBee, Edwin,	I yr.	<i>Sidney High School.</i>	<i>Sidney.</i>	5717 Madison av.
McCalla, Emery Ellsworth,	II yr.	<i>Pontiac High School.</i>	<i>Pontiac.</i>	6034 Woodlawn av.
McKinley, Albert Edward,	II yr.	<i>Temple College, Philadelphia.</i>	<i>Philadelphia, Pa.</i>	25 G.
Meadowcroft, Fannie May,	I yr.	<i>Private Instruction.</i>	<i>Chicago.</i>	197, 30th st.
Moran, Alice Elizabeth,	I yr.	<i>Visitation Academy (D. C.)</i>		4710 Vincennes av.
Mitchell, Florence Louise,	I yr.	<i>Maine Wesleyan College.</i>	<i>Englewood,</i>	14 B.
Mixell, Francis Hill,	I yr.	<i>Kimball Union Academy.</i>	<i>So. Bethlehem, Pa.</i>	8 Sn.
Munson, Sarah,	I yr.	<i>MacDonald Ellis School (D. C.)</i>	<i>Zanesville, O.</i>	5627 Monroe av.
Niblock, Rachel Elizabeth,	I yr.	<i>Coe College.</i>	<i>Colfax, Wash.</i>	F.
O'Connor, Nellie Johnson,	II yr.	<i>Chauncey Hall School (Mass.)</i>	<i>Chicago.</i>	3565 Forest av.
Otis, Marion Louise.	II yr.	<i>Kirkland School, Chicago.</i>	<i>Chicago.</i>	294 Huron st.
Paddock, Catherine Dix,		<i>No. Division High School.</i>	<i>Chicago.</i>	5457 Cornell av.
Parker, Marilla Zeroyda,	I yr.	<i>Colby Academy (N. H.)</i>	<i>Brodhead, Wis.</i>	5550 Drexel av.
Payne, Walter A.,	I yr.	<i>Missouri State Normal.</i>	<i>Hurdland, Mo.</i>	438, 57th st.
Pettigrew, Luella Belle,		<i>Rockford Seminary.</i>	<i>Sioux Falls, S. Dak.</i>	22 Kl.
Pooley, William John,	I yr.	<i>Albion College.</i>	<i>Scales Mound.</i>	5800 Jackson av.
Ranney, Mary Lowther,	I yr.	<i>Kemper Hall (Wis.)</i>	<i>Chicago.</i>	36 Ray St.
Rice, Elbridge Washburn,	II yr.	<i>Pontiac High School.</i>	<i>Pontiac.</i>	48 Sn.
Robbins, Simeon Volney,	I yr.	<i>Illinois University.</i>	<i>Lamont.</i>	5332 Drexel av.
Robertson, Mrs. Eugenia S.,	II yr.	<i>Hill House High School (Conn.)</i>	<i>Chicago.</i>	5646 Monroe av.
Rowan, Jean Morton,	I yr.	<i>Morgan Park Academy.</i>	<i>Almont, Mich.</i>	5836 Drexel av.
Runyon, Laura Louise,	I yr.	<i>Plainfield High School.</i>	<i>Plainfield, N. J.</i>	Kl. 42.
Savage, John Howard,	I yr.	<i>Englewood High School.</i>	<i>Marley.</i>	523, 66th ct.
Scarff, Mary Emily,	II yr.	<i>Brockport State Normal School, N. Y.</i>	<i>Bethany, N. Y.</i>	27 F.
Shallies, Guy Wheeler,	I yr.	<i>Buffalo Normal School.</i>	<i>Arcade, N. Y.</i>	8 Sn.
Shibley, Mary Capitola,	I yr.	<i>Northwestern University.</i>	<i>Chicago.</i>	6128 Lexington av.
Stover, Jessie Belle,	II yr.	<i>University of South Dakota.</i>	<i>Centreville S. Dak.</i>	5622 Ellis av.
Stuckrath, Justus Henry,	I yr.	<i>Iowa State Normal School.</i>	<i>Osage, Ia.</i>	5825 Kimbark av.
Sturges, Mrs. Heien,	I yr.	<i>Gannett Institute (Mass.)</i>	<i>Chicago.</i>	5627 Monroe av.
Sweeney, Mrs. Arthur (Lulu),	I yr.	<i>Bradford Academy (Mass.)</i>	<i>St. Paul, Minn.</i>	Hotel Barry.
Sweet, Mary Chase,	II yr.	<i>Cook County Normal School.</i>	<i>Chicago.</i>	5006 Washington av.
Thomas, Frances Maria,	II yr.	<i>Cook County Normal School.</i>	<i>Myersdale, Pa.</i>	Students Hall, Englewood.
Vanderlip, Frank Arthur,	II yr.	<i>University of Illinois.</i>	<i>Chicago.</i>	5126 Madison av.
Wieland, Otto E.,		<i>Proseminary (Elmhurst.)</i>		40 Sn.
Williams, Charles Lewis,	I yr.	<i>California College.</i>	<i>Santa Clara, Cal.</i>	53 Sn.
Wilmarth, Anna Hawes,	I yr.	<i>Miss Herrig's School.</i>	<i>Chicago.</i>	29 B.
Wilson, William Otis,	I yr.	<i>Western Normal College</i>	<i>Bushnell.</i>	45 Sn.

CONSTITUENCY OF CLASSES, WINTER QUARTER, 1894.

REMARKS: 1. The numbers of departments and courses correspond, in general, to those of the ANNUAL REGISTER and CAL-
ENDAR No. 5, in the University proper, and in the Divinity School.

2. All classes recite in Cobb Lecture Hall, unless otherwise stated. The four floors of this building are lettered, the first being
A, and the rooms numbered.

3. Abbreviations: *K*=Kent Chemical Laboratory; *R*=Ryerson Physical Laboratory; *W*=Walker Museum; *g*=Graduate
Student; *u*=University College Student; *a*=Academic College Student; *d*=Divinity Student. Where not otherwise designated,
the student is unclassified.

4. Numerals in parenthesis at the end of each list indicate the number of students taking the course.

5. In nearly all cases recitations occur every week-day except Monday. The hours of recitations can be ascertained at the
University, in the Registrar's office.

THE SCHOOLS OF ARTS, LITERATURE, AND SCIENCE.

I. A. PHILOSOPHY.

R. and C. 13-17.

(Students, 46; courses registered, 49).

Introductory Course: Psychology. DM. (2)

ASSOCIATE PROFESSOR STRONG.

Behan, <i>u</i>	Marot, <i>u</i>	de Swarte, <i>a</i>	
Carpenter, <i>a</i>	Morgan, <i>u</i>	Tanaka, <i>a</i>	
Clarke, <i>a</i>	Munson,	Voight, <i>a</i>	
Curtis, <i>u</i>	O'Connor,	Walls, <i>a</i>	
Hoebeke, <i>u</i>	Osgood, <i>u</i>	Weingarten, <i>a</i>	
Hopkins, <i>a</i>	Otis,	Williams, <i>a</i>	
Howard, <i>a</i>	Rogers, <i>a</i>	Wyant, <i>u</i>	(23)
Leiser, <i>a</i>	Strawn, <i>a</i>		

Advanced Psychology. DM. (10)

ASSOCIATE PROFESSOR STRONG.

Baker, <i>g</i>	Bray, <i>g</i>	Wood, <i>g</i>	(5)
Brainard, <i>g</i>	Stafford, <i>g</i>		

General History of Philosophy. DM. (4)

ASSISTANT PROFESSOR TUFTS.

Goldberg, <i>a</i>	Pierce, <i>u</i>	Taylor, <i>g</i>	
Leadingham, <i>d</i>	Pike, <i>g</i>	Tompkins, <i>g</i>	
Milliman, <i>g</i>	Spalding, <i>u</i>	Wood, <i>g</i>	(10)
Payne,			

Seminar: The Philosophy of Kant. DM. (7)

ASSISTANT PROFESSOR TUFTS.

Baker, <i>g</i>	Millerd, <i>g</i>	Stafford, <i>g</i>	(4)
Manchester, <i>g</i>			

Theory of Education. DM. (13)

DR. MONIN.

Church, <i>u</i>	Kirkpatrick, <i>g</i>	Ricketts, <i>u</i>	(5)
French, <i>g</i>	Morgan, <i>u</i>		

Schopenhauer and Hartmann. DM. (5)

DR. MEZES.

Sanders, <i>g</i>	Sherman		(2)
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I. B. APOLOGETICS AND ETHICS.

C. 17.

(Students, 29; courses registered, 54).

Ethics. M. 1st Term. (2)

PROFESSOR ROBINSON.

Allen, <i>d</i>	Ford, <i>d</i>	Pooley,
Allison, <i>d</i>	Halbert, <i>d</i>	Prescott, <i>u</i>
Behan, <i>u</i>	Horne, <i>d</i>	Rhodes, <i>d</i>
Case, <i>d</i>	Innes, <i>g</i>	Shatto, <i>d</i>
Chadbourne, <i>u</i>	Kinney, <i>d</i>	Ward, <i>d</i>
Cressey, <i>d</i>	Kohlsaat, <i>u</i>	Wilkins, <i>g</i>
Criswell, <i>d</i>	Noftsinger, <i>d</i>	Wood, <i>d</i>
Davies, <i>d</i>	Osgood, <i>u</i>	Wyant, <i>d</i>
Fisk, <i>d</i>		(25)

Advanced Ethics. M. 2d Term. (3)

PROFESSOR ROBINSON.

Allen, <i>d</i>	Ford, <i>d</i>	Prescott, <i>u</i>
Allison, <i>d</i>	Hanson, <i>d</i>	Rhodes, <i>d</i>
Behan, <i>u</i>	Horne, <i>d</i>	Shatto, <i>d</i>
Case, <i>d</i>	Innes, <i>g</i>	Starkweather, <i>d</i>
Chadbourne, <i>u</i> ,	Kinney, <i>d</i>	Stevens, <i>d</i>
Church, <i>u</i>	Kohlsaat, <i>u</i>	Ward, <i>d</i>
Cressey, <i>d</i>	Newcomb, <i>d</i>	Wilkins, <i>g</i>
Criswell, <i>d</i>	Osgood, <i>u</i>	Wood, <i>d</i>
Davies, <i>d</i>	Pooley,	Wyant, <i>d</i>
Fisk, <i>d</i>		(28)

II. POLITICAL ECONOMY.

C. 3-8.

(Students, 85; courses registered, 102).

Economic Seminar. DM. (19)

HEAD PROFESSOR LAUGHLIN.

Cummings, <i>g</i>	Hoxie, <i>g</i>	Thompson, <i>g</i>
Grant, <i>g</i>	Million, <i>g</i>	Vanderlip,
Hardy, <i>g</i>	Sikes, <i>g</i>	White, H. K., <i>g</i>
		(9)

Seminar in Finance. DM. (18)

PROFESSOR A. C. MILLER.

Brown, <i>g</i>	Herron, <i>g</i>	Thurston, <i>g</i>	
Catterall, <i>g</i>	Hoxie, <i>g</i>	Tunell, <i>g</i>	
Grant, <i>g</i>	Stowe, <i>g</i>	West, <i>g</i>	(10)
Hatfield, <i>g</i>			

Advanced Political Economy. DM. (1a)

PROFESSOR A. C. MILLER.

Atwood, <i>a</i>	Dorman, <i>g</i>	Rapp, <i>a</i>	
Barker, <i>a</i>	Fry,	Rice,	
Barnard, <i>a</i>	Hopkins, <i>a</i>	Sass, <i>a</i>	
Barnes, <i>u</i>	Jude, <i>g</i>	Savage,	
Barrett, <i>g</i>	Learned, <i>g</i>	Sikes, <i>g</i>	
Behan, <i>u</i>	Lipsky, <i>a</i>	Spencer, <i>g</i>	
Benbow, <i>g</i>	Livingston, <i>u</i>	Start, <i>g</i>	
Chadbourn, <i>u</i>	McCalla,	Tanaka, <i>a</i>	
Chandler, <i>u</i>	McMahan, <i>u</i>	Thomas, <i>a</i>	
Coolidge, <i>a</i>	Million, <i>g</i>	Tunell, <i>g</i>	
Connett,	Mitchell, <i>a</i>	Vanderlip,	
Curtis, <i>u</i>	Moran, <i>u</i>	Williams, C.,	
Davis, <i>a</i>	Muhlhauser, <i>g</i>	Williams, J., <i>a</i>	
DeGraff, <i>a</i>	Osgood, <i>u</i>	Wolf, <i>a</i>	(42)

Descriptive Political Economy. DM. (1b)

MR. CALDWELL.

Hale, <i>a</i>	Minard, <i>a</i>	Robinson, <i>a</i>	
Hulbert, <i>u</i>	Ramsay, <i>a</i>	Roosa, <i>a</i>	(7)
Lamay, <i>a</i>			

History of Political Economy. DM. (5)

MR. CALDWELL.

Barrett, D. C., <i>g</i>	Dye, <i>g</i>	Learned, <i>g</i>	
Cummings, <i>g</i>	Fenelon, <i>g</i>	Willis, <i>g</i>	(6)

Railway Transportation. DM. (12)

MR. HILL.

Herron, <i>g</i>	Northup, <i>g</i>		(2)
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Industrial and Economic History. DM. (2)

MR. HILL.

(Course not taken).

Comparative Study in Economic and Social Ideals. DM.

MR. CUMMINGS.

(Course not taken).

Advanced Statistics. DM. (11)

DR. HOURWICH.

Boyd, <i>g</i>	Northup, <i>g</i>	Whitcomb,	
Hardy, <i>g</i>	de Swarte, <i>a</i>	White, H. K., <i>g</i>	(8)
Herron, <i>g</i>	Ware, <i>g</i>		

Socialism. DM. (7)

DR. VEBLEN.

Boyd, <i>g</i>	Prescott, <i>u</i>	Ware, <i>g</i>	
Hardy, <i>g</i>	de Swarte, <i>a</i>	Willis, H. P., <i>g</i>	(6)

Oral Debates. DM. (4)

MESSRS. HILL, LOVETT, AND CLARK.

Barnard, <i>a</i>	Million, <i>g</i>	Sass, <i>a</i>	
Catterall, <i>g</i>	Mosley, <i>g</i>	Stowe, <i>g</i>	
Laning, <i>u</i>	Northrup, <i>g</i>	Wilkins, <i>g</i>	
Hoxie, <i>g</i>	Rapp, <i>a</i>	Willis, <i>g</i>	(12)

III. POLITICAL SCIENCE.

C. 1, 9, 10, 12.

(Students, 45; courses registered, 52).

Seminar in Politics. DM. (1)

PROFESSOR JUDSON.

Blakely, <i>g</i>	Dingee, <i>a</i>	Tunnicliff, <i>g</i>	
Brown, <i>g</i>	Mead, <i>g</i>	Wilcox, <i>g</i>	
Conger, <i>g</i>	Thompson, <i>g</i>	Willard, <i>g</i>	(9)

Comparative Politics. DM. (3)

PROFESSOR JUDSON.

Alden, <i>g</i>	Grant, <i>g</i>	Rullkoetter, <i>g</i>	
Brown, <i>g</i>	Knox, <i>g</i>	Sikes, <i>g</i>	
Chandler, <i>u</i>	Livingstone, <i>u</i>	Start, <i>g</i>	
Dorman, <i>g</i>	MacDougal,	Stowe, <i>g</i>	
Dye, <i>g</i>	Miller, <i>g</i>	Tunnicliff, <i>g</i>	
Farr, <i>g</i>	Moseley, <i>g</i>	Wallin, <i>g</i>	(18)

American Constitutional Law. DM. (5)

PROFESSOR JUDSON.

Barnard, <i>a</i>	Eastman, <i>u</i>	McBee,	
Catterall, <i>g</i>	Fryer, <i>u</i>	Moseley, <i>g</i>	
Chandler, <i>u</i>	Hoebeke, <i>u</i>	Rapp, <i>a</i>	
Connett,	Howard, <i>a</i>	Voight, <i>a</i>	
Curtis, <i>u</i>	Hoxie, <i>g</i>	Willis, <i>g</i>	
Davis,	Laning, <i>u</i>	Wilson	(19)
Dorman,			

Research.

Tunell, <i>g</i>	Wallace, <i>g</i>		(2)
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Spanish-American Institutions. DM. (13)

MISS WALLACE.

(Course not taken).

Anthropo-Geography. DM. (15)

MR. CONGER.

Schofield, <i>g</i>	Tunnicliff, <i>g</i>	Williston, <i>a</i>	(4)
Start, <i>g</i>			

IV. HISTORY.

C. 5-8.

(Students, 193; courses registered, 232).

Seminar: Special Topics connected with American History. DM. (34)

HEAD PROFESSOR VON HOLST.

Alden, <i>g</i>	French, <i>g</i>	Start, <i>g</i>	
Barrett, <i>g</i>	Hastings, <i>g</i>	Thompson, <i>g</i>	
Blakely, <i>g</i>	Hinckley, <i>g</i>	Van der Ploeg, <i>g</i>	
Catterall, <i>g</i>	Jude, <i>g</i>	Wallin, <i>g</i>	
Clark, H. B., <i>g</i>	Million, <i>g</i>	Webster, W. C., <i>g</i>	
Crandall, <i>g</i>	Mosley, <i>g</i>	White, H. V., <i>g</i>	
Davies, A. F., <i>g</i>	Page, <i>g</i>	Wilcox, <i>g</i>	
Davis, W. S., <i>g</i>	Rullkoetter, <i>g</i>	Williams, F.,	(26)
Fertig, <i>g</i>	Spencer, <i>g</i>		

French Revolution and the Napoleonic Era.

DM. (19)

HEAD PROFESSOR VON HOLST.

Alden, <i>g</i>	Fertig, <i>g</i>	Muehlhaeser, <i>g</i>	
Benbow, <i>g</i>	Jude, <i>g</i>	Page, <i>g</i>	
Crandall, <i>g</i>	Hastings, <i>g</i>	Van der Ploeg, <i>g</i>	
Davis, <i>g</i>	Hinckley, <i>g</i>	Webster, <i>g</i>	
Dorman, <i>g</i>	Learned, <i>g</i>	Wilkinson, <i>g</i>	(17)
Durban, <i>g</i>	McCasky, <i>g</i>		

Seminar: Early English Institutions. DM. (31)

PROFESSOR TERRY.

Blakely, <i>g</i>	Hunter, G. L., <i>g</i>	Scotfield, <i>g</i>	
Farr, <i>g</i>	McCasky, <i>g</i>	Thompson, <i>g</i>	
Hinckley, <i>g</i>	Ogden, <i>g</i>	Wilcox, <i>g</i>	(9)

The First Attempt to Reorganize Barbaric Society in Europe under Roman Forms. DM. (11)

PROFESSOR TERRY.

Behan, <i>u</i>	Knox, <i>g</i>	Rowan, J. M.,
Crandall, <i>g</i>	Lindeblad, <i>a</i>	Scotfield, <i>g</i>
Dunn, <i>g</i>	McCafferty, <i>g</i>	Spencer, <i>g</i>
Farr, <i>g</i>	McDougal,	Strawn, <i>a</i>
Fertig, <i>g</i>	McLean, <i>g</i>	Steelman, <i>d</i>
Fry	Moran, <i>u</i>	Taylor, <i>u</i>
Gilpatric, <i>a</i>	Radford, M. L., <i>u</i>	Van der Ploeg, <i>g</i>
Knecht,	Rogers, M. J., <i>u</i>	Williams, D., <i>a</i> (24)

Post-Exilic Biblical History from the Exile to the Christian Era. M. 1st Term. (2a)

ASSOCIATE PROFESSOR GOODSPEED.

Berry, G. R., <i>g</i>	Jones, L. A., <i>g</i>	Nichols, E. B., <i>d</i>
Borden, <i>d</i>	Knapp, <i>a</i>	Pooley,
Coon, <i>d</i>	Knox, <i>g</i>	Shaw, E., <i>g</i>
Dickie, <i>g</i>	Marot, M. L., <i>u</i>	Soares, <i>g</i>
Evans, T. S., <i>d</i>	MacLean, <i>g</i>	Sturges,
Ford, J. E., <i>d</i>	McDonald, <i>d</i>	Whaley, <i>g</i> (19)
Hancock, <i>a</i>		

The Early Christian History in its Relation to the Græco-Roman World. M. 2d Term. (2b)

ASSOCIATE PROFESSOR GOODSPEED.

Dunn, <i>g</i>	MacLean, <i>g</i>	Shaw, E., <i>g</i>
Jones, L. A., <i>g</i>	Martin, B. F., <i>d</i>	Soares, <i>g</i>
Knox, <i>g</i>	Pooley	Sturges, <i>g</i> (9)

Outline History of the Middle Ages. DM. (41a)

ASSISTANT PROFESSOR THATCHER.

Bachelé, <i>a</i>	Graves, <i>a</i>	Mixsell,
Barker, <i>a</i>	Hewitt, <i>a</i>	Moffatt, <i>a</i>
Bliss, <i>a</i>	Hobart, <i>a</i>	Niblock,
Boomer, <i>u</i>	Hughes, <i>a</i>	Robertson, <i>a</i>
Brown, <i>a</i>	Hulbert, <i>a</i>	Robinson, <i>a</i>
Carroll, <i>a</i>	Jenkenson, <i>a</i>	Sampsell, <i>a</i>
Cook, <i>a</i>	Karpen, <i>a</i>	Sass, <i>a</i>
Dibell, <i>a</i>	Klock, <i>a</i>	Shallies,
Downing, <i>a</i>	Liebenstein, <i>a</i>	Sperans, <i>a</i>
Friedman, <i>a</i>	Macomber, <i>a</i>	Todd, <i>a</i>
Furness, <i>a</i>	McCorkle, <i>a</i>	Winston, <i>a</i>
Goodspeed,	McGillivray, <i>a</i>	Wright, (36)

Outline History of the Middle Ages. DM. (41b)

ASSISTANT PROFESSOR THATCHER.

Agerter, <i>a</i>	Ellis, <i>a</i>	Purcell, <i>a</i>
Almy,	Foster, <i>a</i>	Sherwin, <i>a</i>
Barnes, <i>a</i>	Gale, <i>a</i>	Smith, <i>a</i>
Broek, <i>a</i>	Hering, <i>a</i>	Wales, <i>a</i>
Butler, <i>a</i>	Johnson, <i>a</i>	Wiley, <i>a</i>
Crafts, <i>a</i>	Kane, <i>a</i>	Williams, C. L.
Dignan, <i>a</i>	Kerr, <i>a</i>	Williams, J. W., <i>a</i>
Dirks, <i>a</i>	Lingle, <i>a</i>	Wilmarth,
Drew, <i>a</i>	Maynard, <i>a</i>	Wolpert. (29)
Durand, <i>a</i>	Osgood, <i>a</i>	

The French Revolution and the Era of Napoleon. DM. (39)

DR. SCHWILL.

Arnold, <i>a</i>	Deaton, <i>g</i>	Packer, <i>a</i>
Atwood, <i>a</i>	Dudley, <i>a</i>	Schnelle, <i>a</i>
Caraway, <i>a</i>	Heil, <i>u</i>	Wyant, <i>u</i> (10)
Castle, <i>u</i>		

Outline History of Modern Europe. DM. (42)

DR. SCHWILL.

Atwood, <i>a</i>	Hulbert, <i>u</i>	Sampsell, <i>a</i>
Beatty, <i>a</i>	Hulshart, <i>a</i>	Savage,
Chapin,	Hurlbut, <i>a</i>	Scovel, <i>u</i>
Dickerson,	Jordan, <i>a</i>	Sincere, <i>a</i>
Diver, <i>a</i>	McCalla,	Stevens, <i>a</i>
Flint, <i>a</i>	McClintock, <i>a</i>	Stone, <i>a</i>
Gettys, <i>a</i>	Mitchell, <i>a</i>	Tefft, <i>a</i>
Goodhue, <i>a</i>	Nichols, <i>a</i>	Williams, C. B., <i>a</i>
Hallingby,	Porterfield, <i>a</i>	Willis, <i>a</i>
Hewitt, <i>a</i>	Rand, <i>a</i>	Woods, F., <i>a</i>
Hubbard, <i>a</i>	Rice,	Woodward, <i>a</i> (33)

Social Life in the American Colonies. DM. (23)

DR. SHEPARDSON.

Barrett, <i>g</i>	Gallion,	Moran,
Caraway, <i>a</i>	Gleason, <i>a</i>	Pike, <i>a</i>
Connett,	Knecht,	Ramsay, <i>a</i>
Davis, <i>g</i>	Lindeblad, <i>a</i>	Smith, <i>a</i>
Dudley, <i>a</i>	Lipsky, <i>a</i>	Speer, <i>a</i>
Eastman, <i>u</i>	Lozier, <i>u</i>	Wallin, <i>g</i> (20)
Fry,	McLean, <i>g</i>	

V. SOCIAL SCIENCE AND ANTHROPOLOGY.*C. 2, 10-12, and W.*

(Students, 62; courses registered, 92).

Seminar: The Psychology, Ethics, and Sociology of Socialism. 3DM. (23)

HEAD PROFESSOR SMALL.

Clark, <i>g</i>	Learned, <i>g</i>	West, <i>g</i>
Davies, <i>g</i>	Thomas, <i>g</i>	Wilkinson, <i>g</i>
Gow, <i>g</i>	Vincent, <i>g</i>	Willard, <i>g</i> (9)

Social Psychology. DM. (25)

HEAD PROFESSOR SMALL.

Atkinson, <i>g</i>	Howerth, <i>g</i>	Shatto, <i>d</i>
Boyd, <i>g</i>	Johnston, <i>g</i>	Steelman, <i>d</i>
Brownson, <i>d</i>	Kirkpatrick, <i>g</i>	Thomas, <i>g</i>
Cummings, <i>g</i>	Mead, <i>g</i>	Vincent, <i>g</i>
Dye, <i>g</i>	Moore, <i>u</i>	Ward, <i>d</i>
Fulcomer, <i>g</i>	Read, <i>d</i>	Willard, <i>g</i>
Hastings, <i>g</i>	Sanders, <i>g</i>	Wishart, <i>d</i> (21)

Problems of Social Statics. DM. (27)

HEAD PROFESSOR SMALL.

Atkinson, <i>g</i>	Howerth, <i>g</i>	Sanders, <i>g</i>
Clark, <i>g</i>	Johnston, <i>g</i>	Spencer, <i>g</i>
Davies, <i>g</i>	Kirkpatrick, <i>g</i>	Steelman, <i>d</i>
Fulcomer, <i>g</i>	Mead, <i>g</i>	Thomas, <i>g</i>
Gow, <i>g</i>	Northup, <i>g</i>	Vincent, <i>g</i> (17)
Hastings, <i>g</i>	Osborn, <i>d</i>	

Seminar : Social Organizations for Promoting Social Welfare. DM. (14)

ASSISTANT PROFESSOR HENDERSON.

Atkinson, <i>g</i>	Gordon, <i>g</i>	Putnam, <i>g</i>	
Boyd, <i>g</i>	Howerth, <i>g</i>	Rogers, <i>g</i>	
Brownson, <i>d</i>	Johnston, <i>g</i>	Waldo, <i>d</i>	
Davis, <i>d</i>	Prescott, <i>u</i>	West, <i>g</i>	(13)
Hicks, <i>d</i>			

Criminology. DM. (17)

ASSISTANT PROFESSOR HENDERSON.

Allison, <i>d</i>	Evans, <i>d</i>	Roosa, <i>u</i>	
Barnes, <i>u</i>	Fryer, <i>u</i>	Stevens, <i>d</i>	
Brewster (Mrs.), <i>d</i>	Griffith, <i>d</i>	Taylor, <i>d</i>	
Brownson, <i>d</i>	Heyland, <i>d</i>	Tustin, <i>d</i>	
Cabeen, <i>d</i>	Howerth, <i>g</i>	Waldo, <i>d</i>	
Carpenter, <i>a</i>	Johnston, <i>g</i>	Wilkins, <i>g</i>	(20)
Davis, <i>d</i>	Ramsey, <i>a</i>		

Seminar in Sanitary Science. DM. (10)

ASSISTANT PROFESSOR TALBOT.

Cary, <i>g</i>			(1)
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Sanitary Aspects of Water, Food and Clothing. DM. (12)

ASSISTANT PROFESSOR TALBOT.

Burchard, <i>g</i>	Cary, <i>g</i>	Moore, <i>u</i>	(3)
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Laboratory Work in Anthropology. DM. (1)

ASSISTANT PROFESSOR STARR.

(Course not taken).

Physical Anthropology Laboratory Work. DM. (2)

ASSISTANT PROFESSOR STARR.

(Course not taken).

Ethnology of North America. DMM. (7)

ASSISTANT PROFESSOR STARR.

Bale, <i>d</i>	Ford, <i>g</i>	Nichols, <i>d</i>	
Davies, <i>g</i>	Miller, <i>g</i>	Robertson, Mrs. (8)	
Dunn, <i>g</i>	Nichols, Mrs., <i>d</i>		

Applied Anthropology. DMM. (3)

DR. WEST.

(Course not taken).

VI. COMPARATIVE RELIGION.

D. 16.

(Students, 6; courses registered, 12).

The Religions of China. M. 1st Term. (2a)

ASSOCIATE PROFESSOR GOODSPEED.

Hanson, <i>d</i>	Moore, <i>u</i>	Stevens, <i>d</i>	
Horne, <i>d</i>	Sanderson, <i>d</i>	Wood, <i>g</i>	(6)

The Religions of Japan. M. 2d Term. (2b)

MR. BUCKLEY.

Hanson, <i>d</i>	Moore, <i>u</i>	Stevens, <i>d</i>	
Horne, <i>d</i>	Sanderson, <i>d</i>	Wood, <i>g</i>	(6)

VII. SEMITIC LANGUAGES AND LITERATURES.

D. 12-16.

(Students, 57; courses registered, 74).

Arabic Poetry and Inscriptions. DM. (68)

HEAD PROFESSOR HARPER.

Archibald, <i>g</i>	Jones, L. A., <i>g</i>	Walker, D. A., <i>g</i>	
Berry, <i>g</i>	Mallory, <i>g</i>	Whaley, <i>g</i>	(7)
Dickie, <i>g</i>			

Hebrew Language. DM. (1)

HEAD PROFESSOR HARPER and DR. CRANDALL.

Allen, I. W., <i>d</i>	Eubank, <i>d</i>	Jones, H. F., <i>d</i>	
Atchley, <i>d</i>	Fletcher, <i>d</i>	Lawrence, <i>d</i>	
Bale, <i>d</i>	Ford, <i>d</i>	Lake, <i>d</i>	
Beyle, <i>d</i>	Froberg, <i>u</i>	Lemon, <i>d</i>	
Bowen, <i>d</i>	Goodman, <i>d</i>	Lockhart, <i>d</i>	
Bronson, <i>d</i>	Griffith, <i>d</i>	Morgan, <i>d</i>	
Bruce, <i>d</i>	Guard, <i>d</i>	Owen, E. J., <i>g</i>	
Chalmers, <i>d</i>	Georges, <i>d</i>	Randall, <i>d</i>	
Chapin, <i>d</i>	Hageman, <i>d</i>	Rhodes, <i>d</i>	
Coon, D. I., <i>d</i>	Hanson, <i>d</i>	Rocen, <i>d</i>	
Davies, <i>d</i>	Hazelton, <i>d</i>	Sanders, <i>d</i>	
Dickerson, <i>d</i>	Herrick, <i>d</i>	Varney, <i>d</i>	
Eaton, <i>d</i>	Howard, W. S., <i>d</i>	Wright, <i>d</i>	(41)
Eddy, <i>d</i>	Ingraham, <i>d</i>		

Abodah Zarah. M. 1st Term. (48)

PROFESSOR HIRSCH.

Leiser, <i>a</i>			(1)
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Selected Portions of the Mishna. M. 1st Term. (43)

PROFESSOR HIRSCH.

(Course not taken).

Coptic. M. 2d Term. (44)

PROFESSOR HIRSCH.

Howard, H., <i>d</i>			(1)
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New Testament and Talmudic Analogies. M. 2d Term. (46)

PROFESSOR HIRSCH.

Soares, <i>g</i>	Whaley, <i>g</i>		(2)
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Beginning Assyrian. M. 1st Term. (69)

ASSOCIATE PROFESSOR HARPER.

(Course not taken).

Advanced Assyrian. M. 2d Term. (71)

ASSOCIATE PROFESSOR HARPER.

Berry, <i>g</i>	Mallory, <i>g</i>		(2)
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Beginning Syriac. DM. (88)

ASSOCIATE PROFESSOR HARPER.

Archibald, <i>g</i>	Leiser, <i>a</i>	Walker, D. A., <i>g</i>	(3)
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Jeremiah. M. 1st Term. (21)

ASSOCIATE PROFESSOR PRICE.

Archibald, <i>g</i>	Leadingham, <i>d</i>	Walker, D. A., <i>g</i>	
Dickie, <i>g</i>	Mallory, <i>g</i>	Woodruff, <i>d</i>	(6)

Isaiah, Chapter XL-LXVI. M. 2d Term. (23)

ASSOCIATE PROFESSOR PRICE.

Archibald, <i>g</i>	Jones, L. A., <i>g</i>	Walker, D. A., <i>g</i>	
Dickie, <i>g</i>	Martin, <i>d</i>	Woodruff, <i>d</i>	
Hunter, <i>u</i>	Mallory, <i>g</i>		(8)

Biblical Aramaic. DM. (80)

ASSOCIATE PROFESSOR PRICE.

Gray, Mrs., Jones, L. A., *g* Soares, *g* (3)**Historical Hebrew.** M. 2d Term. (4)

DR. CRANDALL.

(Course not taken).

Apocryphal Wisdom Literature. DM. (32)

DR. KENT.

(Course not taken).

VIII. BIBLICAL AND PATRISTIC GREEK.

D. 10-12.

(Students, 13; courses registered, 17).

The Gospel of John. DM. (10)

HEAD PROFESSOR BURTON.

Allen, C. W., *d* Goodspeed, E. J., *g* Phillips, D. T., *d*
Borden, *d* Hurley, *d* Wishart, *d*
Davis, U. S., *d* Owen, E. J., *g* Wyant, *d* (9)**New Testament Quotations from the Old Testament.**

I. The Gospels.

HEAD PROFESSOR BURTON.

Allison, *d* Soares, *g* Woodruff, *d* (4)
Goodspeed, E. J., *g***History of the Problem of the Synoptic Gospels, and of the Historical Criticism of the Fourth Gospel.**

DM. (25)

DR. ARNOLT.

Goodspeed, E. J., *g* Owen, *g* Woodruff, *d* (4)
Innes, *g*

IX. SANSKRIT AND INDO-EUROPEAN COMPARATIVE PHILOLOGY.

B. 2-8.

(Students, 7; courses registered, 10).

Sanskrit (continued). DM. (2)

ASSISTANT PROFESSOR BUCK.

Jones, F. N., *g* Winston, *g* Zarbell, *g* (4)
Jones, J. L., *g***Seminar.** DM. (5)

ASSISTANT PROFESSOR BUCK.

Fowler, *g* Linscott, *g* Winston, *g*
Jones, *g* Owen, *g* Zarbell, *g* (6)

X. THE GREEK LANGUAGE AND LITERATURE.

B. 2-8.

(Students, 61; courses registered, 67).

Seminar: The History of Ancient Philosophy.

DM. (20)

PROFESSOR SHOREY.

Dodge, *g* Millerd, *g* Ricketts, *u*
Ely, *g* Owen, *g* Smith, E. J., *g*
France, *g* Paschal, *g* Sisson, *g* (11)
Kruse, *u* Pellett, *g***Literary Criticism and Rhetoric of the Ancients.**

DM. (22)

PROFESSOR SHOREY.

Bray, *g* Gilbert, *g* Ogden, *g*
Carpenter, *g* Lewis, *g* Reynolds, *g* (6)**Demosthenes (Philippics and Olynthiacs).** DM. (6)

ASSOCIATE PROFESSOR TARBELL.

Atwood, H., *a* Daniels, Dougherty, R., *a*
Barnes, *a* Davies, M. B., *g* Norton, *g*
Blaine, *g* Dingee, *a* Trumbull, *a* (10)
Bliss, *a***Introduction to Classical Archæology.** DM. (16)

ASSOCIATE PROFESSOR TARBELL.

Chase, C. K., *g* Emery, *g* Norton, *g*
Clark, G. N., Harley, *g* Walker, A. T., *g*
Daniels, Jackson, G., *g* Wasson, *g* (10)
Ely, *g***Demosthenes and Æschines.** DM. (9)

ASSISTANT PROFESSOR CASTLE.

Clark, G. N., Hamilton, A., *a* Smith, H. J., *a* (5)
Gettys, *a* Pike, *a***Selected Plays of Sophocles and Euripides.**

DM. (14)

ASSISTANT PROFESSOR CASTLE.

Adkinson, *a* Lewis, M. C., *a* Potter, *g*
Blaine, *g* Lewis, S. W., *a* Ward, *g* (8)
Dodge, *g* Pascal, *g***Homer (Iliad, Books I-III); Review of Greek Grammar.** DM. (1)

MR. W. B. OWEN.

Baird, *a* Kells, *a* Stevens, *a*
Bray, Mandeville, *a* Thompson, E. C., *a*
Daniels, McCaw, *a* Tolman, *a*
Edwards, T. A., *g* Minnick, *a* Tooker, *a*
Hyman, *a* Odell, *a* Wright, (17)
Jackson, *a* Pienkowsky, *a*

XI. THE LATIN LANGUAGE AND LITERATURE.

B. 2-8.

(Students, 114; courses registered, 134).

Juvenal. DM. (24)

HEAD PROFESSOR HALE.

Chase, *g* Jones, *g* Shaw, *g*
Danforth, *g* Jackson, *g* Smith, *g*
Ely, *g* Linscott, *g* Walker, *g*
France, *g* Markham, *g* Wasson, *g*
Fowler, *g* Paschal, *g* Winston, *g* (17)
Harley, *g* Ricketts, *u***Seminar 3: Comparative Syntax of the Greek and Latin Verb.** DM. (43)

HEAD PROFESSOR HALE.

Ely, *g* Gilbert, *g* Smith, *g*
Emery, *g* Harley, *g* Walker, *g*
Faulkner, *g* Jackson, *g* Zarbell, *g* (11)
France, *g* Millerd, *g*

Cicero's Letters. DM. (13)

ASSOCIATE PROFESSOR ABBOTT.

Blaine, <i>g</i>	Heil, <i>u</i>	Robertson, S., <i>a</i>	
Carroll, <i>a</i>	Hill,	Shaw, <i>g</i>	
Chase, <i>g</i>	Kruse, <i>u</i>	Todd, <i>a</i>	
Danforth, <i>g</i>	Lutrell, <i>a</i>	Ward, <i>g</i>	
Davies, M., <i>g</i>	Norton, <i>g</i>	Wasson, <i>g</i>	(17)
Dingee, <i>a</i>	Potter, <i>g</i>		

Seminar I: Colloquial Latin. DM. (41)

ASSOCIATE PROFESSOR ABBOTT.

Danforth, <i>g</i>	Jones, F., <i>g</i>	Potter, <i>g</i>	
Davies, M., <i>g</i>	Markham, <i>g</i>	Ward, <i>g</i>	(6)

Introduction to Classical Archæology. DM. (32)

ASSOCIATE PROFESSOR TARBELL.

(See X., 16).

Horace (Odes); Wilkins's Primer of Roman Literature. DM. (8c)

DR. MILLER.

Ballou, <i>a</i>	Hay, <i>a</i>	Nelson, <i>a</i>	
Barrett, C., <i>a</i>	Hosic, <i>a</i>	Nichols, <i>a</i>	
Bond, <i>a</i>	Hubbard, <i>a</i>	Plant, <i>a</i>	
Brandt, <i>a</i>	Hutchings, <i>a</i>	Rand, <i>a</i>	
Chamberlin, <i>a</i>	Jordan, <i>a</i>	Sincere, <i>a</i>	
Cornish, <i>a</i>	Lagergren, <i>a</i>	Tefft, <i>a</i>	
Cosgrove, <i>a</i>	Lutrell, <i>a</i>	Thomas, <i>a</i>	
Dougherty, <i>a</i>	Mandel, <i>a</i>	VanVliet, <i>a</i>	
Goodman, <i>a</i>	Markham, <i>g</i>	Walls, <i>a</i>	
Gwin, <i>a</i>	McClintock, <i>a</i>	Woods, <i>a</i>	
Haft, <i>a</i>	McWilliams, <i>a</i>	Woodward, <i>a</i>	(35)
Hallingby,	Messick, <i>a</i>		

Horace (Satires); Seneca (Tragedies). DM. (9)

DR. MILLER.

Barrett, L., <i>a</i>	Dibell, <i>a</i>	Mitchell, <i>a</i>	
Bennett, <i>a</i>	Downing, <i>a</i>	Moffatt, <i>a</i>	
Bliss, <i>a</i>	Furness, <i>a</i>	Porterfield, <i>a</i>	
Brown, L., <i>a</i>	Gettys, <i>a</i>	Raycroft, <i>a</i>	
Clark, G.,	Graves, <i>a</i>	Rogers, <i>a</i>	
Cook, <i>a</i>	Hulbert, C., <i>u</i>	Sampson, <i>a</i>	
DeGraff, <i>a</i>	Leiser, <i>a</i>	Willis, G., <i>a</i>	(21)

Cicero (de Senectute); Livy (Books XXI and XXII); Terence (Phormio); Tacitus (Germania and Agricola). Section 2. DMM. (3c)

MR. EMERY.

Alschuler, <i>a</i>	Drew, <i>a</i>	Johnson, <i>a</i>	
Axelson, <i>a</i>	Edwards, <i>g</i>	McKinley,	
Bennett, <i>a</i>	Evans, <i>a</i>	Mannhardt, <i>a</i>	
Brown, <i>a</i>	Gatzert, <i>a</i>	Oglevee, <i>a</i>	
Campbell, <i>a</i>	Ickes, <i>a</i>	Peterson, <i>a</i>	
Caraway, <i>a</i>	Johann, <i>a</i>	Radford, M. E., <i>a</i>	(19)
Crouse, <i>a</i>			

Virgil (Æneid); Cicero (Orations). DMM. (1)

MISS PELLETT.

Campbell, <i>a</i>	Hubbard,	Runyon,	
Goldberg, <i>a</i>	McClintock, <i>a</i>	Yarzemski, <i>a</i>	(6)

XII. ROMANCE LITERATURE AND PHILOLOGY.

B. 12-16.

(Students, 72; courses registered, 100).

Old French. DM. (2)

HEAD PROFESSOR KNAPP.

Austin, <i>g</i>	Hunter, <i>g</i>	de Poyen, <i>g</i>	
Cutler, <i>g</i>	Neff, <i>g</i>	Witkowski, <i>g</i>	(7)
Fairfield, <i>g</i>			

Old Spanish. DM. (6)

HEAD PROFESSOR KNAPP.

Austin, <i>g</i>	Hunter, <i>g</i>	de Poyen, <i>g</i>	
Cutler, <i>g</i>	McWhirt, <i>g</i>	Wallace, <i>g</i>	
Fairfield, <i>g</i>	Neff, <i>g</i>	Witkowski, <i>g</i>	(9)

Spanish Conversation. (Special Course, Wednesdays, 9-11).

HEAD PROFESSOR KNAPP.

Austin, <i>g</i>	Hunter, <i>g</i>	Neff, <i>g</i>	
Cutler, <i>g</i>	Kirkland, <i>g</i>	de Poyen, <i>g</i>	
Fairfield, <i>g</i>	McWhirt, <i>g</i>	Witkowski, <i>g</i>	(9)

French Literature of the Nineteenth Century (continued). DM. (13b)

ASSISTANT PROFESSOR BERGERON.

Korsmeyer, <i>g</i>	Reese, <i>g</i>		(2)
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Special Course of Conversation. DMM. (15)

ASSISTANT PROFESSOR BERGERON.

Barrett, <i>a</i>	Graves, <i>a</i>	Neel, <i>a</i>	
Beatty, <i>a</i>	Hay, <i>a</i>	Russell, <i>a</i>	
Bowers,	Hurlbut, Lila C., <i>a</i>	Scarff, <i>u</i>	
Brandt, <i>a</i>	Jenkinson, <i>a</i>	Sherwin, <i>a</i>	
Castle, <i>u</i>	Karper, <i>a</i>	Schwartz, <i>a</i>	
Chamberlin, <i>a</i>	Lozier, <i>u</i>	Stowell, <i>a</i>	
Fish, <i>a</i>	McCafferty, <i>g</i>	Walling, <i>a</i>	
Friedman, <i>a</i>	McWilliams, A. L., <i>a</i>	Webster, <i>a</i>	(26)
Gardner, <i>a</i>	Morgan, M., <i>a</i>		

French Phonetics. DM. (20)

ASSISTANT PROFESSOR BERGERON.

Korsmeyer, <i>g</i>	Reese, <i>g</i>		(2)
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Historical French Grammar. DM. (Special course.)

MR. DE POYEN.

Austin, <i>g</i>	Fairfield, <i>g</i>	Neff, <i>g</i>	
Cutler, <i>g</i>	Hunter, <i>g</i>	Witkowski, <i>g</i>	(6)

Italian Drama. M. 1st Term. (24)

(Course not taken).

Italian Comedy. M. 2d Term. (25)

(Course not taken).

Knapp's French Readings (continued); French Grammar (continued). DMM. (30)

DR. KINNE.

Barrett, <i>a</i>	Hiss,	Rothschild, <i>a</i>	
Bell, <i>a</i>	Jackson, <i>a</i>	Sherman, <i>a</i>	
Berry,	Keith,	Steigmeyer, <i>a</i>	
Dirks, <i>a</i>	Lambert, <i>u</i>	Vaughan, <i>a</i>	
George,	Maynard, <i>a</i>	Wallace, <i>a</i>	(16)
Grant, <i>a</i>			

Selections from Mérimée, Teuillet, Lamartine, etc.
DM. (31)

Beach, <i>a</i>	Lambert, <i>u</i>	Perrine, <i>g</i>	
Dudley,	Mannhardt, <i>a</i>	Roche, <i>a</i>	
Ellis, <i>u</i>	McGillivray, <i>a</i>	Vaughan, <i>a</i>	
Gallion,	Paddock,	Whitson, <i>a</i>	(13)
Hulshart, <i>a</i>			

Spanish. DM. (10)

Breeden, <i>a</i>	Kirtland,	Moran, <i>u</i>	
Carroll, <i>a</i>	McCorkle, <i>a</i>	Murphy, <i>a</i>	
Fairfield, <i>g</i>	Minard, <i>a</i>	Webster, <i>a</i>	(10)
Holloway, <i>a</i>			

XIII. GERMANIC LANGUAGES AND LITERATURES.

B. 9-11.

(Students, 125; courses registered, 135).

Seminar.

ASSISTANT PROFESSOR CUTTING AND DR. SCHMIDT-WARTENBERG.

Jones, J. L., <i>g</i>	Rullkoetter, <i>g</i>	Smith, <i>g</i>	
Kern, <i>g</i>	Sass, <i>a</i>	Walker, <i>u</i>	
Korsmeyer, <i>g</i>	Scarff,	Wollpert,	
McCafferty, <i>g</i>	Schmidt, <i>g</i>	Wood, F. A., <i>g</i>	(13)
Mulfinger, <i>g</i>			

Faust II. DM. (1)

ASSISTANT PROFESSOR CUTTING.

Korsmeyer, <i>g</i>	Rullkoetter, <i>g</i>	Wollpert,	
Mulfinger, <i>g</i>	Schmidt, <i>g</i>	Wood, F. A., <i>g</i>	(6)

German Prose Composition. DM. (16)

ASSISTANT PROFESSOR CUTTING.

Allen, <i>a</i>	Friedmann, <i>a</i>	Scarff,	
Alschuler, <i>a</i>	Graves, <i>a</i>	Stückrath,	
Batt, <i>a</i>	Jones, <i>a</i>	Walker, F. M., <i>u</i>	
Bishop, <i>a</i>	McCafferty, <i>g</i>	Wieland,	
Castle, <i>u</i>	Sass, <i>a</i>	Wolf, <i>a</i>	(16)
Crandall, <i>a</i>			

German Comedies. DM. (20)

ASSISTANT PROFESSOR CUTTING.

Atkinson, <i>a</i>	Hewitt, <i>a</i>	Peabody, <i>a</i>	
Baird, <i>a</i>	Hobart, <i>a</i>	Pierce, <i>u</i>	
Battis,	Hubbard,	Robertson, <i>a</i>	
Bray,	Hubbard, M., <i>a</i>	Sincere, <i>a</i>	
Brown, <i>a</i>	Jenkinson, <i>a</i>	Speer, <i>a</i>	
Chollar, <i>a</i>	Johnson, <i>a</i>	Stückrath,	
Crafts, <i>a</i>	Kennedy, <i>a</i>	Tanaka, <i>a</i>	
De Graff, <i>a</i>	Kerr, <i>a</i>	Taylor, <i>u</i>	
Downing, <i>a</i>	Knapp, <i>a</i>	Thomas, <i>a</i>	
Furness, <i>a</i>	McClintock, A., <i>a</i>	Thompson, E., <i>a</i>	
Gale, <i>a</i>	McMahan, <i>u</i>	Tooker, <i>a</i>	
Gleason, <i>a</i>	Messick, <i>a</i>	Todd, <i>a</i>	
Goodhue, <i>a</i>	Moffatt, <i>a</i>	Wales, <i>a</i>	
Graves, P., <i>a</i>	Mosser, S. C., <i>a</i>	Williams, D., <i>a</i>	
Hewitt, H. O., <i>a</i>	Packer, <i>a</i>	Wooley, <i>a</i>	(45)

Old High German (Introductory). DM. (4)

DR. SCHMIDT-WARTENBERG.

Jones, J. L., <i>g</i>	Mulfinger, <i>g</i>	Smith, R. P., <i>d</i>	(4)
Linscott, <i>g</i>			

Middle High German (Advanced). DM. (8)

DR. SCHMIDT-WARTENBERG.

Jones, J. L., <i>g</i>	Kern, <i>g</i>	Wood, F. A., <i>g</i>	(3)
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Scientific Reading. DM. (26)

DR. SCHMIDT-WARTENBERG.

Fiske, <i>g</i>			(1)
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Elementary Course. DMM. (17)

MR. MULFINGER.

Agarter, <i>a</i>	Kellogg, <i>a</i>	Stover,
Beardsley,	Kelso,	Swett,
Chace, <i>a</i>	Lingle, <i>a</i>	Van Vliet, <i>a</i>
Cortner,	Murphy, <i>a</i>	Wilkinson, A. C., <i>u</i>
Ellis, <i>a</i>	Perkins, <i>a</i>	Wilkinson, H., <i>g</i>
Keeler, <i>a</i>	Peterson, <i>d</i>	

Intermediate Course. DM. (18)

MR. MULFINGER.

Arnold, <i>a</i>	Goodman,	Pierce, <i>a</i>
Barker, <i>a</i>	Goss,	Robinson, <i>a</i>
Barnard, <i>a</i>	Lewis, M. C., <i>a</i>	Scovel, <i>u</i>
Bliss, <i>a</i>	Lewis, S. W., <i>a</i>	Shallies,
Dawes,	McBee,	Simpson, <i>a</i>
Dickerson,	McClenaham, <i>a</i>	Tompkins, <i>g</i>
Dodge, <i>g</i>	McWilliams, <i>a</i>	Trumbull, <i>a</i>
Flint, J., <i>a</i>	Mixsell,	Wilson,
Flint, N., <i>a</i>	Payne,	Winston, <i>a</i>
Ford, <i>a</i>	Pershing, <i>a</i>	Woods, F., <i>a</i>

XIV. THE ENGLISH LANGUAGE AND LITERATURE; AND RHETORIC.

K.

(Students, 331; courses registered, 396).

Ancient Tragedy for English Readers. DM. (12)

PROFESSOR MOULTON.

American,	Lathe, <i>g</i>	Radford, <i>u</i>
Barrett, <i>g</i>	Love, <i>g</i>	Ranney,
Battis,	MacLean, <i>g</i>	Reynolds,
Bowen, <i>g</i>	Matz,	Smith, <i>g</i>
Brainard, <i>g</i>	McMahan, <i>u</i>	Stanton, <i>g</i>
Butler, <i>a</i>	Meadowcroft,	Vaughan, <i>a</i>
Chadbourne, <i>u</i>	Mitchell,	Webster, <i>a</i>
Crotty, <i>g</i>	Moran,	Wilkins, <i>g</i>
Folsom, Nellie E.,	Porter, <i>a</i>	Wilkinson, <i>g</i>
Johnson, <i>g</i>		

Old English. Elementary Course (continued).

DM. (24)

ASSISTANT PROFESSOR BLACKBURN.

Battis,	Johnson, L. A., <i>g</i>	Squires, <i>g</i>
Carpenter, N. J., <i>g</i>	Lambert, <i>u</i>	Weatherlow, <i>g</i>
Dougherty, M., <i>u</i>	Mitchell, F. L.,	Witt
Grant, <i>g</i>	Ogden, <i>g</i>	Wood, F. A., <i>g</i>
Henry, <i>g</i>	Snoddy, <i>g</i>	Woods, W.,

Middle English. DM. (26)

ASSISTANT PROFESSOR BLACKBURN.

Church, <i>u</i>	Kohlsaas, <i>u</i>	Ogden, <i>g</i>	
Folsom,	Morgan, E., <i>u</i>	Snoddy, <i>g</i>	(7)
Smith, M. C., <i>g</i>			

Old English Seminar. DM. (28)

ASSISTANT PROFESSOR BLACKBURN.

Brainard, <i>g</i>	Ogden, <i>g</i>	Snoddy, <i>g</i>	(5)
Crotty, <i>g</i>	Otis,		

The Sources of Shakespeare's Plays. DM. (40)

ASSISTANT PROFESSOR CROW.

Bowen, M., <i>g</i>	Grant, G. K., <i>g</i>	O'Connor,	
Bray, A.,	Hilliard, <i>g</i>	Squires, <i>g</i>	
Brown,	Love, <i>g</i>	Walker, F. M., <i>u</i>	
Davis, E. E.,	McCaskey, <i>g</i>	Woods, W.,	
Deaton, <i>g</i>	Niblock,	Weatherlow, <i>g</i>	(15)

English Literature Seminar. Studies in Elizabethan Literature. DM. (36)

ASSISTANT PROFESSOR CROW.

Bowen, <i>g</i>	Crotty, <i>g</i>	Milliman, <i>g</i>	
Brainard, <i>g</i>	Harris, <i>g</i>	O'Connor	(8)
Brown,	Hilliard, <i>g</i>		

The Development of the English Novel from Richardson to George Eliot. DM. (17)

ASSISTANT PROFESSOR McCLINTOCK.

Alling,	Henry, <i>g</i>	Radford, M. L., <i>u</i>	
American,	Hilliard, <i>g</i>	Ranney,	
Anderson,	Johnson, L. A., <i>g</i>	Reynolds, H.,	
Barrett, <i>g</i>	Lambert, <i>u</i>	Rogers, M., <i>a</i>	
Boomer, J. K., <i>u</i>	Lathe, <i>g</i>	Roosa,	
Bray, A.,	Love, <i>g</i>	Smith, M. C., <i>g</i>	
Dougherty, M., <i>a</i>	McKinley, A.,	Spalding, <i>a</i>	
Folsom, <i>g</i>	Meadowcroft, F.	Stanton, <i>g</i>	
Fryer, <i>u</i>	Milliman, <i>g</i>	Taylor, W. B., <i>d</i>	
Goodspeed, E., <i>g</i>	Mitchell,	Walker, F. M., <i>u</i>	
Grant, G. K., <i>g</i>	Payne,	Wilkinson, A. C., <i>u</i>	
Harris, <i>g</i>	Putnam, <i>g</i>	Witt, H. C.	(36)

Works of William Wordsworth. DM. (32)

ASSISTANT PROFESSOR McCLINTOCK.

Bowen, M., <i>g</i>	Lathe, <i>g</i>	Sherman, <i>g</i>	
Bray, <i>g</i>	Maddocks, <i>g</i>	Squires, <i>g</i>	
Carpenter, <i>g</i>	Ogden, H. N., <i>g</i>	Weatherlow, <i>g</i>	(11)
Carpenter, N. J., <i>g</i>	Reynolds, M., <i>g</i>		

Special Research.

ASSISTANT PROFESSOR McCLINTOCK.

Lathe, <i>g</i>	Page, <i>g</i>	Reynolds, M., <i>g</i>	(4)
Lewis, E. H., <i>g</i>			

English Epic Poetry. DM. (37)

ASSISTANT PROFESSOR TOLMAN.

Allen, A. L.,	Henry, <i>g</i>	Lathe, <i>g</i>	
Anderson,	Keith	Scarff,	
Bentley,	Kennedy, M.,	Scovel, <i>u</i>	
Carpenter, N. J., <i>g</i>	Lamay, <i>a</i>	Walker, F. M., <i>u</i>	(12)

Development of English Prose Style. DM. (6)

MESSRS. HERRICK AND LOVETT.

(Course not taken).

Oral Debates. DM. (4)

MESSRS. HILL, LOVETT, AND CLARK.

(See Department of Political Economy).

English Literature of the Nineteenth Century. The Poetry of Tennyson and Arnold. DM. (21)

MR. TRIGGS.

Adkinson, <i>a</i>	Holloway, <i>a</i>	Packer, <i>a</i>
Anderson,	Hancock, <i>a</i>	Parker,
Bennett, <i>a</i>	Hoebeke, <i>u</i>	Pettigrin,
Bentley,	Hosic, <i>a</i>	Porter, <i>a</i>
Chapin,	Howard, <i>a</i>	Radford, <i>u</i>
Clark, <i>a</i>	Hughes, <i>a</i>	Ranney,
Dougherty, M., <i>u</i>	Klock, <i>a</i>	Rowan,
Dougherty, R. L., <i>a</i>	Kohlsaas, <i>u</i>	Stanton, <i>g</i>
Ellis, <i>u</i>	McMahon, <i>u</i>	Thomas, <i>a</i>
Friedman, <i>a</i>	Meadowcroft,	Vaughan, <i>a</i>
Goodspeed,	Morgan, <i>u</i>	Witt
Hale, <i>a</i>	Niblock,	(35)

English Literature. DM. (10a)

ASSISTANT PROFESSOR TOLMAN.

Arnold, <i>a</i>	Cornish, <i>a</i>	Goodman, <i>a</i>
Atwood, <i>a</i>	Davis, <i>a</i>	Graves, E. B., <i>a</i>
Axelson, <i>a</i>	Dibell, <i>a</i>	Graves, L. B., <i>a</i>
Baker, <i>a</i>	Dignan, <i>a</i>	Gray,
Ballou, <i>a</i>	Diver, D., <i>a</i>	Hale, B. M., <i>a</i>
Batt, M., <i>a</i>	Dornsife, <i>a</i>	Hartley, E., <i>a</i>
Berry, M.,	Drew, <i>a</i>	Hering, <i>a</i>
Bishop, <i>a</i>	Durand, <i>a</i>	Hopkins, F., <i>a</i>
Brandt, B., <i>a</i>	Evans, <i>a</i>	Hulbert, C., <i>a</i>
Chapin,	Fish, <i>a</i>	Hulbert, E. L., <i>u</i>
Coolidge, <i>a</i>	Foster, E. B., <i>a</i>	Hull, <i>a</i>
Cosgrove, <i>a</i>	Friedman, H., <i>a</i>	Hyman, I., <i>a</i>

English Literature. DM. (10b)

MESSRS. LOVETT AND HERRICK.

Kells, <i>a</i>	Mixsell,	Stevens, <i>a</i>
Klock, <i>a</i>	Northrup, <i>u</i>	Stone, <i>a</i>
Knecht,	Ogden, <i>a</i>	Sweett,
Liebenstein, <i>a</i>	Odell, <i>a</i>	Tefft, <i>a</i>
Lipsky, <i>a</i>	Purcell, <i>a</i>	Thompson, H. B., <i>a</i>
Loeb, <i>a</i>	Raycroft, <i>a</i>	Tolman, <i>a</i>
Macomber, <i>a</i>	Schwarz, <i>a</i>	Walls, <i>a</i>
Mandel, <i>a</i>	Runyon,	Wiley, <i>a</i>
Mandeville, <i>a</i>	Shallies,	Willis, <i>a</i>
McCaw, <i>a</i>	Sherman, <i>a</i>	Winston, C. S., <i>a</i>
McClintock, S. S., <i>a</i>	Simpson, B. J., <i>a</i>	Wollpert,
Minnick, <i>a</i>	Smith, K. G., <i>a</i>	Woodward, <i>a</i>

Rhetoric and English Composition. DM. (1a)

MR. LEWIS.

Abbott,	Gatzert, <i>a</i>	Mosser, <i>a</i>
Apps, <i>a</i>	Guthrie, <i>a</i>	Myhrmann, <i>d</i>
Barrett, C., <i>a</i>	Gwin, <i>a</i>	Nelson, <i>a</i>
Beach, <i>a</i>	Hannan,	Oglevee, <i>a</i>
Bond, <i>a</i>	Hay, F. S., <i>a</i>	Pienkousky, <i>a</i>
Brown, J., <i>a</i>	Ickes, <i>a</i>	Pooley, <i>a</i>
Casteel,	Johann, <i>a</i>	Savage,
Chamberlin, E., <i>a</i>	Jordan, <i>a</i>	Schnelle, <i>a</i>
Chamberlin, J. C., <i>a</i>	Lansingh, <i>a</i>	Sherman, <i>a</i>
Crouse, <i>a</i>	Loesch, <i>a</i>	Sherwin, <i>a</i>
Dickerson,	Lutrell, <i>a</i>	Vaughan, W. C., <i>a</i>
Dougherty, H. R., <i>a</i>	Marsh, <i>a</i>	Williams, C. L., <i>a</i>
Dougherty, R., <i>a</i>	McWilliams, A. L., <i>a</i>	Wilson,
Ford, <i>a</i>	Miller, R. N., <i>g</i>	(41)

Rhetoric and English Composition. DM. (1b)

MESSRS. HERRICK AND LOVETT.

Alling,	Graves, E. B., <i>a</i>	Munson,
Baker, <i>a</i>	Graves, L. B., <i>a</i>	Niblock,
Ballou, <i>a</i>	Hering, <i>a</i>	Northrup, <i>u</i>
Batt, <i>a</i>	Hewitt, H. O., <i>a</i>	Odell, <i>a</i>
Battis,	Hutchings, <i>a</i>	Osgood, <i>a</i>
Beardsley,	Hyman, <i>a</i>	Perkins, <i>a</i>
Bliss, G. A., <i>a</i>	Jackson, C. B., <i>a</i>	Pershing, <i>a</i>
Breeden, <i>a</i>	Jackson, W. H., <i>a</i>	Peterson, <i>a</i>
Campbell, J. T., <i>a</i>	Jenkinson, <i>a</i>	Plant, <i>a</i>
Campbell, J. W., <i>a</i>	Kane, <i>a</i>	Pollock, <i>a</i>
Chollar, <i>a</i>	Kells, <i>a</i>	Radford, <i>a</i>
Cornish, <i>a</i>	Kelso,	Rand, <i>a</i>
Cosgrove, <i>a</i>	Kennedy,	Ranney,
Crandall, <i>a</i>	Klock, <i>a</i>	Rothschild, <i>a</i>
Davis, S. E.,	Lagergren, <i>a</i>	Runyon, <i>a</i>
Dignan, <i>a</i>	Liebenstein, <i>a</i>	Schwarz, <i>a</i>
Dirks, <i>a</i>	Lingle, <i>a</i>	Shallies,
Drew, <i>a</i>	Lipsky, <i>a</i>	Simpson, B. J., <i>a</i>
Durand, <i>a</i>	Loeb, <i>a</i>	Steigmeyer, <i>a</i>
Eastman, <i>u</i>	Logie, <i>u</i>	Tefft, <i>a</i>
Eisendrath, <i>a</i>	Macomber, <i>a</i>	Thomas, I. M., <i>a</i>
Ellis, <i>a</i>	Mandel, <i>a</i>	Thompson, E. C., <i>a</i>
Evans, <i>a</i>	Mandeville, <i>a</i>	Thompson, H. B., <i>a</i>
Fish, <i>a</i>	McCaw, <i>a</i>	Tooker, <i>a</i>
Flint, J. M., <i>a</i>	McCorkle, <i>a</i>	Trumbull, <i>a</i>
Foster, <i>a</i>	Meadowcroft,	Witt,
Goodman, <i>a</i>	Miller, <i>g</i>	Wollpert,
Goss,	Mitchell,	Wright, (86)
Grant, <i>a</i>	Mixsell,	

Rhetoric and English Composition. (1c)

(Course not given until Autumn, 1894).

English Composition (continued). DM. (2)

MR. LOVETT.

Barnes, <i>a</i>	Hopkins, <i>a</i>	Williams, C. B., <i>a</i>
Bishop, <i>a</i>	Hosic, <i>a</i>	Wilmarth,
Fox,	Howard, <i>a</i>	Winston, <i>a</i>
Gallion,	Karpen, <i>a</i>	Wolff, H. D., <i>a</i>
Gardner, <i>a</i>	Matz,	Wolff, L., <i>a</i> (17)
Hartley,	Radford, <i>u</i>	

Advanced English Composition (continued). DM. (5)

MR. HERRICK.

Davis, E. E.,	Lathe, <i>g</i>	Otis,
Emerson, <i>g</i>	Love, <i>g</i>	Rogers, <i>a</i>
Goodspeed,	McKinley,	Wilkins, <i>g</i> (10)
Hubbard,		

XV. BIBLICAL LITERATURE IN ENGLISH.

D. 10-16.

(Students, 18; courses registered, 19).

The Corinthian Epistles. DM. (B8 and 9)

MR. VOTAW.

Alling,	Giblett, <i>d</i>	Summers, <i>d</i>
Blake, <i>d</i>	Lockwood, C. H., <i>d</i>	Troyer, <i>d</i>
Carroll, <i>d</i>	Lockwood, E. L., <i>d</i>	Williston, F., <i>a</i>
Case, F. A., <i>d</i>	Loughridge, <i>d</i>	Witt, <i>d</i> (12)

The Life of Christ. DM. (B2)

MR. VOTAW.

Alling,	Hurlbutt, W. H., <i>a</i>	Nichols, F. D., <i>a</i>
Clark, F. B., <i>a</i>	Kerr, M. L., <i>a</i>	Wright, S. E. (7)
Hartley, E., <i>a</i>		

XVI. MATHEMATICS.

R.

(Students, 157; courses registered, 172).

Theory of Functions of a Complex Variable.

DM. (16)

PROFESSOR MOORE.

Froley, <i>g</i>	Markhof, <i>g</i>	Whitney, <i>g</i> (5)
Huff, <i>g</i>	Slaught, <i>g</i>	

Plane Analytic Geometry and Differential and Integral Calculus (continued). DM. (5)

PROFESSOR MOORE.

George, <i>a</i>	Neel, <i>a</i>	Schnelle, <i>a</i>
Heil, <i>u</i>	Payne,	Spalding, <i>u</i>
Johnson, V. O., <i>a</i>	Peet, <i>g</i>	Stone, I., <i>g</i> (9)

Research Work.

PROFESSOR MOORE.

Hardcastle, <i>g</i>		(1)
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Hyperelliptic Functions. DM. (21)

PROFESSOR BOLZA.

Hutchinson, <i>g</i>	Smith, J. A., <i>g</i>	(2)
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Advanced Integral Calculus. DM. (7)

PROFESSOR BOLZA.

Fenelon, <i>g</i>	Joffe, <i>g</i>	Taylor, <i>g</i>
Foley, <i>g</i>	Lehman, <i>g</i>	Torrey, <i>g</i> (8)
Gillespie, <i>g</i>	Schottenfels, <i>g</i>	

Thesis Work.

PROFESSOR BOLZA.

Hutchinson, <i>g</i>		(1)
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Theory of the Potential. DM. (14)

ASSISTANT PROFESSOR MASCHKE.

Foley, <i>g</i>	Huff, <i>g</i>	Smith, <i>g</i>
Gillespie, <i>g</i>	Markhof, <i>g</i>	Whitney, <i>g</i> (7)
Goldberg, <i>a</i>		

Line Geometry. DM. (18)

ASSISTANT PROFESSOR MASCHKE.

Cobb, <i>g</i>	Joffe, <i>g</i>	Schottenfels, <i>g</i> (4)
Huff, <i>g</i>		

Determinants: Theory of Equations (continued).

DM. (6)

DR. YOUNG.

Deaton, <i>g</i>	Lansingh, <i>a</i>	Spalding, <i>u</i>
Fenelon, <i>g</i>	Lehman, <i>g</i>	Taylor, <i>g</i>
Joffe, <i>g</i>	Schottenfels, <i>g</i>	Torrey, <i>g</i> (9)

Required Mathematics. DM. (1a)

Abbott, Dirks, *a*
 Barrett, *a* Grant, F., *a*
 Beatty, *a* Jones, N. L., *a*
 Broek, *a* Nelson, *a*
 Comstock, Marsh, *a*

DR. BOYD.

Masser, *a*
 Parker, *a*
 Stone, H., *g*
 Stowell, *a*
 Vaughn, W. C., *a*(15)

Required Mathematics. DM. (1b)

Batt, *a* Hyman, *a*
 Crafts, *a* Lingle, *a*
 Foster, *a* Loeb, *a*
 Friedman, J. C., *a*

DR. BOYD.

Schwarz, *a*
 Smith, *a*
 Woodward, *a* (10)

Required Mathematics. DM. (1c)

Baker, *a* Gilpatrick, *a*
 Barrett, *a* Fish, *a*
 Breeden, *a* Graves, E. B., *a*
 Campbell, J. T., *a* Graves, L. B., *a*
 Chollar, *a* Hulshart, *a*
 Coolidge, *a* Mitchell, *a*
 Crandall, *a* Hurlburt, W. H., *a*
 Dougherty, R. L., *a* Peabody, *a*

DR. BOYD.

Rothchild, *a*
 Russell, *a*
 Tooker, *a*
 Thomas, I. M., *a*
 Thompson, E., *a*
 Thompson, H., *a*
 Walling, *a* (23)

Required Mathematics. DM. (1d)

Apps, E., *a* Ford, *a*
 Beach, *a* Goodman,
 Bennett, E., *a* Harvey, *g*
 Bliss, *a* Hering, *a*
 Chace, *a* Kells, *a*
 Chamberlin, E., *a* McClenahan, *a*
 Dignan, *a* Mandeville, *a*
 Durand, *a* Maynard, *a*
 Flint, *a* Minnick, *a*

MR. SLAUGHT.

Morgan, *a*
 Odell, *a*
 Osgood, *a*
 Pershing, *a*
 Pienkowsky, *a*
 Raycroft, *a*
 Smith, H., *a*
 Tooker, *a*
 Wolf, *a* (27)

Required Mathematics. DM. (1e)

Atwood, *a* Gardner, *a*
 Bachellé, *a* Guthrie, *a*
 Bennett, L., *a* Gwin, *a*
 Campbell, *a* Hallingby,
 Chamberlin, *a* Hay, F., *a*
 Colnon, Hurlbut, *a*
 Cornish, *a* Kellogg, *a*
 Dornside, *a* Kennedy, *a*
 Evans, *a* Lagergren, *a*
 Fiske, *g* Loesch, *a*

MR. SLAUGHT.

McCorkle, *a*
 McKinley, *a*
 Messick, *a*
 Mosser, *a*
 Northrup, *u*
 Peterson, *a*
 Rand, *a*
 Sperans, *a*
 Walls, *a* (29)

Required Mathematics. DM. (1f)

Beardsley, Liebenstein, *a*
 Cosgrove, *a* Macomber, *a*
 Courtner, Mandel, *a*
 Ellis, M. V., *a* McCalla,
 Goodman, C., *a* McCaw, *a*
 Hutchings, *a* McWilliams, M., *a*
 Hyman, *a* Perkins, *a*
 Kane, *a*

MR. SMITH.

Porterfield, *a*
 Radford, *a*
 Rice, *a*
 Simpson, *a*
 Trumbull, *a*
 Winston, A., *a*
 Woodward, (22)

XVII. ASTRONOMY.

R.

(Students, 10; courses registered, 16).

Solar Physics. DM. (or MM.) (2)

ASSOCIATE PROFESSOR HALE.

(Course not given owing to Professor Hale's absence).

General Perturbations. DM. (6)

DR. SEE.

Froley, *g* Lehman, *g* Slaught, *g* (3)

Astronomical Seminar. (10)

DR. SEE AND DR. LAVES.

Barrett, *g* Harvey, *g* Slaught, *g* (5)
 Froley, *g* Lehman, *g*

General Astronomy (continued). (11)

DR. SEE.

Clarke, *a* Harvey, *g* Taylor, *u*
 Deaton, *g* Marot, *u* Wyant, *u* (6)

Spherical Harmonics. DM. (8a)

DR. LAVES.

Froley, *g* (1)

Determination of Orbits. DM. (8)

DR. LAVES.

Harvey, *g* (1)

XVIII. PHYSICS.

R.

(Students, 77; courses registered, 84).

Research Course. DMM. (1)

HEAD PROFESSOR MICHELSON.

(Course not taken).

Special Graduate Course. DM. (or DMM.) (2)

HEAD PROFESSOR MICHELSON.

Foley, *g* Mautner, *g* Whitney, *g* (3)

General Physics (advanced). DM. (3)

PROFESSORS MICHELSON AND STRATTON.

Barrett, S. B., *g* Mautner, *g* Swartz, *g*
 Cooke, E., *g* Newby, *g* Welch, *g* (8)
 Leslie, *g* Stone, *g*

Laboratory Practice (advanced). DM. (4)

ASSISTANT PROFESSOR STRATTON.

Barrett, S. B., *g* Mautner, *g* Welch, *g*
 Leslie, *g* Stone, *g* Whitney, *g* (6)

Electrical Measurements. DM.

ASSISTANT PROFESSOR STRATTON.

(Course combined with No. 4).

General Physics. 2DM. (5)

ASSISTANT PROFESSOR STRATTON.

Abbott, W.,	Gale, a	Paddock,
Bachellé, a	Haft, a	Peabody, a
Baird, a	Hamilton, a	Perisho, g
Baker, a	Hewitt, H., a	Pershing, a
Barrett, a	Hobart, a	Robbins,
Bennett, a	Holloway, a	Shibley,
Bliss, a	Hubbard,	Speer, a
Braam,	Hughes, a	Sperans, a
Breeden, a	Johnson, a	Stone, g
Brock, a	Jones, a	Stone, H. W., a
Carpenter, a	Karpen, a	Taylor, g
Chollar, a	Keeler, a	Thomas, a
Clark, F. B., a	Kruse,	Thompson, a
Comstock,	Lansing, a	Voight, a
D'Ancona,	Leonard	Wales, a
Dougherty, H., a	Loeb, a	Weingarten, a
Fiske, g	Marsh, a	Weiland,
Flint, J., a	McClenahan, a	Williston, a
Folin, g	McGillivray, a	Winston, a
Friedman, a	Neel, a	Wolff, a (60)

Laboratory Practice. DM. (6)

Barrett, S. B., g	Gleason, a	MR. HOBBS.
Dawes,	Hubbard, L., g	Parker,
Gilpatrick, a		Willard, g (7)

XIX. CHEMISTRY.

K.

(Students, 48; courses registered, 82).

Organic Chemistry. DM. (6)

Bothe, g	Goodell, g	PROFESSOR NEF.
Chesnut, g	Hesse, g	Swartz, S. E., g
Folin, g	Mitchell, g	Wood, R. W., g (8)

Organic Preparations. Laboratory Work. DM. (or MM.) (12)

Chesnut, g	Folin, g	PROFESSOR NEF.
		Swartz, S. E., g (3)

Research Work for Ph.D. Thesis Laboratory Work. DM. (14)

Bernhard, g	Crofton, g	PROFESSOR NEF.
		Smith, W. R., g (3)

Journal Meetings. DM. (15½)

Bernhard, g	Goodell, g	PROFESSOR NEF.
Chesnut, g	Hesse, g	Smith, g
Crofton, g	Jones, L. W., g	Swartz, S. E., g
Folin, g	Mitchell, B. S., g	Wood, R. W., g (11)

Independent Research.

Crofton, g	Sherman, g	Von Akeron, g (4)
Hesse, B. C., g		

Advanced Inorganic Work. DM. (or MM.) (10)

ASSISTANT PROFESSOR SCHNEIDER.

Goodell, g	Jaquish, g	Mitchell, g (3)
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Qualitative Analysis. Laboratory Work. DM.

(or MM.) (4)

Abells,	Fox, g	Whitson, a
Blackmarr,	Hiss,	Yarzembski, a (8)
Emerson, g	Newby, g	

Qualitative Analysis. Lectures. ½DM. (3a)

ASSISTANT PROFESSOR SCHNEIDER.

Abells,	Fox, g	Whitson, a
Blackmarr,	Hiss	Yarzembski, a (8)
Emerson, g	Newby, g	

Quantitative Analysis. Laboratory Work. DM.

(or MM.) (5)

ASSISTANT PROFESSOR SCHNEIDER.

Bothe, g	Keeler, g	Stone, H., g (3)
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Research Work for Ph.D. Thesis (Inorganic).

DMM. (14)

ASSISTANT PROFESSOR SCHNEIDER.

(Course not taken).

General Chemistry (continued). DM. (1)

DR. LENGFELD.

Abells,	Lewis, u	Taylor, g
Boomer, J., u	Mautner, g	Tolman, a
Comstock,	Minard, a	Walling, a
Fox, g	Pierce, E. V., u	Webster, a
Guyer, u	Robbins,	Whitson, a
Hamilton, a	Shibley,	Wolff, L., a
Hessler,	Stone, H., g	Wooley, a
Hiss,	Stone, I., g	Yarzembski, a
Lamay, a	Stowell, a	Zoethout (27)

Theoretical Chemistry. ½DM. (9)

DR. LENGFELD.

Bothe, g	Goodell, g	Jones, g (5)
Chesnut, g	Hesse, g	

History of Chemistry. ½DM. (18)

DR. LENGFELD.

Hesse, g		(1)
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Research Work for Ph.D. Thesis. DMM. (14)

DR. LENGFELD.

Wood, g		(1)
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Qualitative Spectrum Analysis. Laboratory Work and Lectures. ½DM. (16)

DR. STIEGLITZ.

Chesnut, g	Hesse, g	Smith, W. R., g (4)
Fox, g		

The Carbo-hydrates and the Complex Hydro-carbons. ½DM. (21)

DR. STIEGLITZ.

Bernhard, g	Swartz, S. E., g	(2)
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Advanced Inorganic Work. DM. (or MM.) (10a)

DR. STIEGLITZ.

Jones, L. W., g		(1)
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XX. GEOLOGY.

W.

(Students, 51; courses registered, 101).

Seminar. (25)

HEAD PROFESSOR CHAMBERLIN.

(Contributing Members).

Bownocker, <i>g</i>	Knapp, <i>a</i>	Quereau, <i>g</i>
Buell, <i>g</i>	Kümmel, <i>g</i>	Whitson, <i>u</i>
Gordon, <i>g</i>	Merriam, <i>g</i>	Willard, D. E., <i>g</i> (11)
Hopkins, <i>g</i>	Peet, <i>g</i>	

(Attending Members).

Cowles, <i>g</i>	Hay, <i>g</i>	Perisho, <i>g</i>
Farr, <i>g</i>	Lucas, <i>g</i>	Taylor, <i>g</i> (7)
Ford, <i>g</i>		

Principles and Working Methods of Geology. DM.
(or MM.) (22)

HEAD PROFESSOR CHAMBERLIN.

Buell, <i>g</i>	Hibbard, <i>g</i>	Merriam, <i>g</i>
Hay, <i>g</i>	Hopkins, <i>g</i>	Quereau, <i>g</i> (6)

Special Geology. (23)

HEAD PROFESSOR CHAMBERLIN
AND PROFESSOR SALISBURY.

Bownocker, <i>g</i>	Jones, L. W., <i>g</i>	Quereau, <i>g</i>
Buell, <i>g</i>	Knapp, <i>a</i>	Udden, <i>g</i>
Gordon, <i>g</i>	Kümmel, <i>g</i>	Willard, D. E., <i>g</i> (11)
Hopkins, <i>g</i>	Peet, <i>g</i>	

Structural Geology and Continental Evolution. DM.
(or MM.) (12)

PROFESSOR SALISBURY.

Barnes, <i>u</i>	Ford, E. K., <i>g</i>	Willard, E., <i>g</i> (5)
Cowles, <i>g</i>	Perisho, <i>g</i>	

General Geology. DM. (9)

PROFESSOR SALISBURY.

Barrett,	Lewis, A. B., <i>u</i>	Willard, E., <i>g</i>
Chadbourn, <i>u</i>	Miller, M. L., <i>g</i>	Williams, <i>a</i>
Clarke, <i>a</i>	Thomas, F. M.,	Woods, F., <i>a</i> (10)
Cowles, <i>g</i>		

Descriptive Mineralogy. DM. (4)

ASSOCIATE PROFESSOR IDDINGS.

Barrett,	Hopkins, <i>g</i>	Perisho, <i>g</i>
Bothe, <i>g</i>	Jones, L. W., <i>g</i>	Thomas, F. M., (8)
Ford, <i>g</i>	Lewis, A. B., <i>u</i>	

Petrography. DMM. (or DM.) (6)

ASSOCIATE PROFESSOR IDDINGS.

Barrett,	Hopkins, <i>g</i>	Knapp, <i>a</i> (4)
Bownocker, <i>g</i>		

Economic Geology. DM. (14)

ASSOCIATE PROFESSOR PENROSE.

Barrett, <i>g</i>	Gordon, <i>g</i>	Knapp, <i>a</i>
Buell, <i>g</i>	Hibbard, <i>g</i>	Kümmel, <i>g</i> (8)
Burchard, <i>g</i>	Hopkins, <i>g</i>	

Chemistry of Ore Deposits. DM. (15)

ASSOCIATE PROFESSOR PENROSE.

(Course not given in 1894.)

Pre-Cambrian Geology. M. 1st Term. (19)

PROFESSOR VAN HISE.

Bownocker, <i>g</i>	Gordon, <i>g</i>	Kümmel, <i>g</i> (5)
Buell, <i>g</i>	Hopkins, <i>g</i>	

Laboratory Course in Connection with Pre-Cambrian
Geology. M. 1st Term. (20)

PROFESSOR VAN HISE.

Bownocker, <i>g</i>	Gordon, <i>g</i>	Kümmel, <i>g</i> (5)
Buell, <i>g</i>	Hopkins, <i>g</i>	

Paleontologic Geology. DM. (18b)

DR. QUEREAU AND DR. MERRIAM.

Bownocker, <i>g</i>	Ford, <i>g</i>	Peet, <i>g</i>
Cornish, <i>g</i>	Lucas, <i>g</i>	Willard, D. E., <i>g</i> (7)
Cowles, <i>g</i>		

Physiography. DM. (1)

MR. KÜMMEL.

Apps, <i>a</i>	Hutchings, <i>a</i>	Wallace, E., <i>a</i>
Bond, <i>a</i>	Jackson, C., <i>a</i>	Wieland,
Guthrie, <i>a</i>	Lewis, M. C., <i>a</i>	Wilmarth,
Haft, <i>a</i>	Lewis, S. W., <i>a</i>	Winston, <i>a</i> (14)
Hay, M., <i>a</i>	Loesch, <i>a</i>	

XXII. ZOÖLOGY.

K.

(Students, 33; courses registered, 44).

Embryology. Higher Invertebrates. DMM. (1)

HEAD PROFESSOR WHITMAN.

Bristol, <i>g</i>	Eycleshymer, <i>g</i>	Mead, <i>g</i>
Brode, <i>g</i>	Hubbard, <i>g</i>	Munson, <i>g</i>
Boyer, <i>g</i>	Johnson, <i>g</i>	Sturges, <i>g</i> (11)
Clapp, <i>g</i>	Lillie, <i>g</i>	

Seminar: Historical Topics. DM. (3)

HEAD PROFESSOR WHITMAN.

Bristol, <i>g</i>	Eycleshymer, <i>g</i>	Mead, <i>g</i>
Brode, <i>g</i>	Johnson, <i>g</i>	Munson, <i>g</i>
Boyer, <i>g</i>	Lillie, <i>g</i>	Sturges, <i>g</i> (10)
Clapp, <i>g</i>		

Vertebrate Embryology. DMM. (4)

MR. LILLIE.

Cole, <i>g</i>	Guyer, <i>u</i>	Hubbard, <i>u</i>
Farr, <i>g</i>	Hardesty, <i>g</i>	Taylor, <i>g</i> (6)

Cellular Biology. (7)

DR. WATASE'.

(Lectures and Demonstrations).

Bacteriological Research. DMM.

DR. JORDAN.

Flint, J., <i>a</i>		(1)
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Elementary Zoölogy. DM. (5)

DR. JORDAN.

Bell, <i>a</i>	Miller, <i>g</i>	Weingarten, <i>a</i> ,
Chamberlain, <i>g</i>	Munson, <i>g</i>	Willard, <i>g</i>
Ford, <i>g</i>	Pierce, L. F., <i>a</i>	Wolfe, <i>g</i>
Hubbard, M. E., <i>a</i>	Strawn, <i>a</i>	Wooley, <i>a</i>
Lewis, A., <i>u</i>	Thomas, F. M.,	Zoethout, <i>u</i> (16)
Lozier, <i>u</i>		

PALEONTOLOGY.

W.

Comparative Osteology and Phylogeny of Vertebrates.
DM. (9)

ASSISTANT PROFESSOR BAUR.

Clapp, *g* Comstock, Hay, *g* (3)**Seminar in Comparative Osteology.** DM. (10)

ASSISTANT PROFESSOR BAUR.

Clapp, *g* Comstock, Hay, *g* (3)**Research in the Osteology of Living and Extinct Vertebrates.** DMM. (11)

ASSISTANT PROFESSOR BAUR.

Farr, *g* Hay, *g* Taylor, *g* (3)

XXIII. ANATOMY AND HISTOLOGY.

K.

(Students, 9; courses registered, 9).

General Histology of Animals. DM. (1)

MR. EYCLESHYMER.

Chamberlain, *g* Hibbard, *g* Sturgis, *g*
Flint, J., *a* Hubbard, *u* Wolfe, *g*
Hardesty, *g* Shibley, Zoethaut, *u* (9)

XXIV. PHYSIOLOGY.

R.

(Students, 20; courses registered, 28).

Original Investigations in Physiology. DMM. (1)

ASSISTANT PROFESSOR LOEB.

Cooke, *g* (1)**Physiology of Circulation, Respiration, and Animal Heat.** DM. (5)

ASSISTANT PROFESSOR LOEB.

Brode, *g* Hibbard, *g* Munson, *g*
Chamberlin, *g* Mitchell, *g* Sturges, *g* (7)
Hardesty, *g***Laboratory Work in the Physiology of Circulation, Respiration, and Animal Heat.** (6)

ASSISTANT PROFESSOR LOEB.

Chamberlain, *g* Mitchell, *g* Sturges, *g* (4)
Hibbard, *g***Seminar.** In connection with Course 11. DM. (12)

ASSISTANT PROFESSOR LOEB.

Chamberlain, *g* Hibbard, *g* Mitchell, *g* (4)
Cooke, *g***Introductory Physiology.** DM. (13)

DR. LINGLE.

Atwood, *a* Goodhue, *a* Purcell, *a*
Ballou, *a* Hewitt, H., *a* Steigmeyer, *a*
Butler, *a* Kennedy, *a* Wiley, *a*
Diver, *a* McClintock, *a* Wolff, *a* (12)

XXV. NEUROLOGY.

K.

(Students, 12; courses registered, 21).

Anatomy of the Special Sense Organs. M.

1st Term. (2)

PROFESSOR DONALDSON.

Clapp, *g* Manchester, *g* Sisson, *g*
Eycleshymer, *g* Mead, *g* Stafford, *g* (7)
Johnson, *g***Physical Characters of the Brain as related to the Intelligence.** M. 2d Term. (3)

PROFESSOR DONALDSON.

Campbell, *g* Johnson, *g* Sisson, *g*
Clapp, *g* Manchester, *g* Stafford, *g* (9)
Eycleshymer, *g* Mead, *g* Thomas, *g***Seminar.** DM. (6)

PROFESSOR DONALDSON.

Baker, Manchester, *g* Wolfe, *g* (5)
Brainard, *g* Stafford, *g*

XXVI. ELOCUTION.

A.

(Students, 85; courses registered, 88).

Theory and Practice. One hour a week. (1)

MR. CLARK.

Section A.

Carroll, *a* Gilpatrick, *a* Robinson, *a*
Clarke, H. L., *a* Kerr, *a* Smith, H. J., *a* (9)
Furness, *a* Klock, *a* Woodward, *a*

Section B.

Carpenter, *a* Hughes, *a* McKinley,
Clark, F., *a* Jones, N. L., *a* Rice,
Diver, *a* McCalla, Van Vliet, *a* (9)

Section C.

Atwood, *a* Gettys, *a* Minard, *a*
Beatty, *a* Goodhue, *a* Parker, M.,
De Graff, *a* Hale, *a* Speer, *a*
Gale, *a* Hubbard, *a* Willis, *a* (12)

Section D.

Arnold, *a* McClintock, A., *a* Sperans, *a*
Baird, *a* McClintock, S., *a* Stone, *a*
Brandt, *a* Robertson, *a* Tanaka, *a*
Coolidge, *a* Schnelle, *a* Weingarten, *a*
Davis, Sherman, *a* Winston, *a* (15)

Section E.

Barrett, *a* Hosic, *a* Moffatt, *a*
Brown, *a* Hulshart, *a* Pike, *a*
Cook, *a* Hurlburt, *a* Pooley
Dodge, *g* Johnson, R., *a* Thomas, *a*
Downing, *a* Johnson, V., *a* Todd, *a*
Gardner, *a* Lutrell, *a* Walls, *a*
Goldberg, *a* Maynard, *a* Wilson (23)
Graves, *a* Messick, *a*

Section F.

Friedman, <i>a</i>	Sass, <i>a</i>	Williston, <i>a</i>	
Goss,	Stowell, <i>a</i>	Woods, <i>a</i>	
Holloway, <i>a</i>	Williams, J. W., <i>a</i>	Wright,	(10)
Mulhaeuser, <i>g</i>			

Writing and Delivery of Original Orations. Analysis
and Reading of Macbeth. M. (3)

		MR. CLARK.	
Barnes, <i>a</i>	Karpen, <i>a</i>	de Swarte, <i>a</i>	
Carraway, <i>a</i>	Odell, <i>a</i>	Taylor, <i>g</i>	
Goss,	Parker, M.	Voight, <i>a</i>	(10)
Hosic, <i>a</i>			

Oral Debates. DM. (4)

MESSRS. HILL, LOVETT, AND CLARK.

(See Department of Political Economy).

THE DIVINITY SCHOOL.

THE GRADUATE DIVINITY SCHOOL.

XXX. OLD TESTAMENT LITERATURE AND EXEGESIS.

Detailed statements of class lists, see above under No. VII.

XXXI. NEW TESTAMENT LITERATURE AND EXEGESIS.

Detailed statement of class lists, see above under Nos. VIII and XV.

XXXIII. SYSTEMATIC THEOLOGY.

D. 2-7.

(Students, 31; courses registered, 31).

Introduction and Theology Proper. DM. (1)

HEAD PROFESSOR NORTHRUP.

Aitchison,	Fletcher,	Morgan	
Atchley.	Guard	Nichols,	
Braker,	Hageman.	Nichols, Mrs.,	
Chalmers,	Halbert,	Proctor,	
Coon, D. I.,	Hazelton,	Randall.	
Dickerson,	Howard, W. S.,	Varney,	
Eaton,	Hurley,	Watson,	
Eddy,	Ingraham,	Wilkin,	
Eubank,	Johnson,	Wright,	(27)

Special Research.

HEAD PROFESSOR NORTHRUP.

Heyland,	Osborne,	Read.	(4)
Irving,			

XXXIV. CHURCH HISTORY.

D. 2-7.

(Students, 66; courses registered, 72).

From Constantine to Theodosius. DM. (2)

HEAD PROFESSOR HULBERT.

Aitchison,	Frantz,	Johnson,	
Allen, I. W.,	Georges,	Kinney,	
Beyl,	Goodman,	Phillips,	
Borden,	Grant,	Rocen,	
Braker,	Halbert,	Steelman,	
Bronson,	Hanson,	Tustin,	
Cressey,	Herrick,	Varney,	(23)
Fisk,	Howard, W. S.,		

The English Reformation and Puritanism. DM. (12)

HEAD PROFESSOR HULBERT.

Allen, C. W.,	Goodman,	Noftinger,	
Bixon,	Grarup,	Peterson,	
Bowen,	Griffeth,	Rhodes,	
Brandsmark,	Herrick,	Sanders,	
Brownson,	Hicks,	Sanderson,	
Cabeen,	Hole,	Shatto,	
Case,	Horne,	Taylor,	
Chapin,	Jones, H. F.,	Ward,	
Coon,	Lake,	Wishart,	
Criswell,	Larson,	Wood,	
Davis, J. T.,	Lemon,	Wyant,	(35)
Davis, U. S.,	Lockhart,		

Under the Stuarts, A.D. 1603-1688. DM. (28)

HEAD PROFESSOR HULBERT.

(Course not taken).

The German Reformation. DM. (11)

ASSISTANT PROFESSOR JOHNSON.

Andersen, H. M.,	Cressey,	Lindblad,
Bailey,	Frantz,	Nelson, S. A.,
Borsheim,	Grarup,	Phillips, D. F.,
Borden,	Hurley,	Sanderson,
Coon,	Larson,	(14)

The Lutheran Church. DM. (13)

ASSISTANT PROFESSOR JOHNSON.

(Course not taken).

XXXV. HOMILETICS, CHURCH POLITY, AND PASTORAL DUTIES.

D. 2-7.

(Students, 71; courses registered, 106).

Homiletics. DM. (2)

HEAD PROFESSOR ANDERSON.

Atchley,	Eddy,	Jones, H. F.,
Aitchison,	Frantz,	Kinney,
Beyl, J.,	Fletcher,	Morgan,
Bowen,	Grant,	Myhrman,
Bruce,	Guard,	Nichols, W. H.,
Braker,	Halbert,	Proctor,
Case, C. D.,	Hageman,	Randall,
Chalmers,	Hazelton,	Tustin,
Chapin,	Howard, W. S.,	Varney,
Coon, D. I.,	Innes, g	Watson,
Dickerson,	Ingraham,	Wilkin,
Eaton,	Johnson, Ph. M.,	Wright,
		(36)

Plans and Sermons. DM. (1)

HEAD PROFESSOR ANDERSON.

FIRST YEAR CLASS.

Atchley,	Fletcher,	Kinney,
Aitchison,	Grant,	Morgan,
Beyl,	Guard,	Myhrmann,
Bowen,	Halbert,	Nichols, W. H.,
Bruce,	Hageman,	Proctor,
Braker,	Hazelton,	Randall,
Chalmers,	Howard, W. S.,	Tustin,
Chapin,	Innes, g	Varney,
Dickerson,	Ingraham,	Watson,
Eaton,	Johnson, Ph. M.,	Wilkin,
Eddy,	Jones, H. F.,	Wright,
		(33)

Plans and Sermons. DM. (1)

HEAD PROFESSOR ANDERSON.

SECOND YEAR CLASS.

Allen, I. W.,	Eakin,	Lockhart,
Bronson,	Fiske,	Rhodes,
Case, C. D.,	Goodman,	Wood, W. R.,
Chriswell,	Lemon,	Wyant,
Davis, U. S.,		(13)

Plans and Sermons. DM. (1)

HEAD PROFESSOR ANDERSON.

THIRD YEAR CLASS.

Bixon,	Horne,	Osborn,	
Coon, D. B.,	Heyland,	Read,	
Davies.	Howard, H.,	Shatto,	
Davis, J. T.,	Lake,	Stevens,	
Ford,	Noftsinger,	Ward,	(16)
Griffith,			

Plans and Sermons. DM. (1)

ASSISTANT PROFESSOR JOHNSON.

Bailey,	Cressey,	Phillips, D. T.,	
Borden,	Franz,	Sanderson,	(8)
Coon, D. B.,	Hurley,		

XV. BIBLICAL LITERATURE IN ENGLISH.

D. 10-12.

Courses in this department in the Graduate School and the Colleges, are open to students in the Divinity School.

THE ENGLISH THEOLOGICAL SCHOOL.

XXXIII. SYSTEMATIC THEOLOGY.

(Students, 45; courses registered, 83).

Theology as taught by Paul. DM. (12)

HEAD PROFESSOR NORTHRUP.

Allen, H. H.,	Dent,	Lockwood, Mrs.,	
Berry,	Dewey,	Loughridge,	
Bixon,	Dexter,	McDonald,	
Blake,	Evans,	Mason,	
Brandsmark,	Fradenberg,	Morgan,	
Brewster,	Giblett,	Paul,	
Broomfield,	Gill,	Schlamann,	
Carroll,	Hoyt,	Smith, C. H.,	
Case, F. A.,	Lockwood,	Smith, T. L.,	(28)
Davies,			

Anthropology. M. 1st Term. (9)

ASSISTANT PROFESSOR SIMPSON.

Allen, H. H.,	Hale,	Paul,	
Berry,	Hatch,	Smith,	
Bixon,	Hoyt,	Summers,	
Blake,	Lockwood,	Troyer,	
Dent,	Lockwood, Mrs.	West,	
Dexter,	Mason,	Witt,	(20)
Grablachoff,	Morgan,		

Ethics. DM. (13)

ASSISTANT PROFESSOR SIMPSON.

Allen, H. H.,	Grablachoff,	Rocen,	
Berry,	Hatch,	Schlamann,	
Broomfield,	Hoyt,	Smith,	
Dent,	Johnson,	Speicher,	
Dewey,	McDonald,	Thompson,	
Dexter,	Mason,	Vreeland,	
Fradenberg,	Morgan, Mrs.	West,	(23)
Gill,	Paul,		

Soteriology. M. 2d Term. (10)

ASSISTANT PROFESSOR SIMPSON.

Bixon,	Giblett,	Smith,	
Broomfield,	Grablachoff,	Thompson,	
Carroll,	Hale,	Vreeland,	
Dewey,	Loughridge,	Wood, J. F.,	(12)

XXXIV. CHURCH HISTORY.

(Students, 11; courses registered, 11).

History of the Church from Theodosius to Charles the Great. M. 1st Term. (3)

HEAD PROFESSOR HULBERT.

Carrol,	Gill,	Speicher,	
Case, F. A.,	Grablachoff,	Schlamann,	
Dewey,	Grarup,	Wood, J. F.,	(11)
Fradenburg,	Loughridge,		

XXXV. HOMILETICS, CHURCH POLITY, AND PASTORAL DUTIES.

(Students, 27; courses registered, 27).

Homiletics. DM. (2)

HEAD PROFESSOR ANDERSON.

Blake,	Giblett,	Thompson,	
Boynton,	Robinson,	Vreeland,	
Broomfield,	Schlamann,	Wood, J. F.,	(11)
Case, F. A.,	Speicher,		

Homiletics. M. 2d Term. (2)

ASSISTANT PROFESSOR JOHNSON.

Allen, H. H.,	Hatch,	Smith,	
Berry,	Lockwood,	Summers,	
Dent,	Lockwood, Mrs.	Troyer,	
Dexter,	Mason,	West,	
Fradenburg,	Paul,	Witt,	(16)
Hoyt,			

THE DANISH-NORWEGIAN THEOLOGICAL SEMINARY.

XL. OLD AND NEW TESTAMENT LITERATURE AND EXEGESIS.

(Students, 7; courses registered, 12).

The Epistle to the Romans. DM. (7)
ASSISTANT PROFESSOR GUNDERSON.

Andersen, H. M.,	Hansen,	Overgaard,	
Andersen, H. P.,	Nielsen,	Rasmussen,	(7)
Borsheim,			

The Parables of Our Lord. DM. (5)
ASSISTANT PROFESSOR GUNDERSON.

Andersen, H. P.,	Nielsen,	Rasmussen,	(5)
Hansen,	Overgaard,		

XLI. SYSTEMATIC THEOLOGY.

(Students, 8; courses registered, 16).

Redemption Proper. M. 1st Term. (3)
MR. T. O. WOLD.

Andersen, H. M.,	Hansen,	Overgaard,	
Andersen, H. P.,	Johnson,	Rasmussen,	(8)
Borsheim	Nielsen,		

Consequence of Redemption. M. 2d Term. (4)
MR. T. O. WOLD.

Andersen, H. M.,	Hanson,	Overgaard,	
Andersen, H. P.,	Johnson,	Rasmussen,	(8)
Borsheim,	Nielsen,		

THE SWEDISH THEOLOGICAL SEMINARY.

XLVII. CHURCH HISTORY.

(Students, 13; courses registered, 26).

XLVI. SYSTEMATIC THEOLOGY AND PASTORAL DUTIES.

(Students, 11; courses registered, 24).

The Bible a Revelation from God. M. 1st Term. (3)
PROFESSOR LAGERGREN.

Carlson, J. A.,	Johnson,	Olson,	
Carlson, S. G.,	Nelson, S. A.,	Sandell,	(8)
Clint,	Nylin,		

The Doctrine of God. M. 2d Term. (4)
PROFESSOR LAGERGREN.

Carlson, J. A.,	Johnson,	Olson,	
Carlson, S. G.,	Nelson, S. A.,	Sandell,	(8)
Clint,	Nylin,		

The Last Things. M. 1st Term. (8)
PROFESSOR LAGERGREN.

Lawrence,	Nelson, S. A.,	Nilson, C. A.,	(4)
Lindblad,			

Symbolics. M. 2d Term. (9)
PROFESSOR LAGERGREN.

Lawrence,	Nelson, S. A.,	Nelson, C. A.,	(4)
Lindblad,			

Ancient Church History. M. 1st Term. (1)

ASSISTANT PROFESSOR SANDELL.

Berglund,	Lawrence,	Nilson, C. A.,	
Carlson, J. A.,	Lindblad,	Nylin,	
Carlson, S. G.,	Nelson, Sven A.,	Olson,	
Clint,	Nelson, Swaney A.,	Sandell,	(13)
Johnson,			

Mediæval Church History. M. 2d Term. (2)

ASSISTANT PROFESSOR SANDELL.

Berglund,	Lawrence,	Nelson, C. A.,	
Carlson, J. A.,	Lindblad,	Nylin,	
Carlson, S. G.,	Nelson, Sven A.,	Olson,	
Clint,	Nelson, Swaney A.,	Sandell,	(13)
Johnson,			

XLVIII. HOMILETICS.

(Students, 9; courses registered, 18).

Theoretical Homiletics. M. 1st Term. (1)

ASSISTANT PROFESSOR SANDELL.

Berglund,	Clint,	Nylin,	
Carlson, J. A.,	Johnson,	Olson,	
Carlson, S. A.,	Nelson, Swaney A.,	Sandell,	(9)

Practical Homiletics. M. 2d Term. (2)

ASSISTANT PROFESSOR SANDELL.

Berglund,	Clint,	Nylin,	
Carlson, J. A.,	Johnson,	Olson,	
Carlson, S. C.,	Nelson, Swaney A.,	Sandell,	(9)

THE QUARTERLY REPORT

CONCERNING

THE SEVERAL DIVISIONS OF THE UNIVERSITY.
(Autumn Quarter, 1893.)

THE FACULTY OF ARTS, LITERATURE, AND SCIENCE.

1. LIST OF DEPARTMENTS, INSTRUCTORS, AND COURSES.

[The numerals indicate the work of each Instructor reckoned in Double Minors, as open to students in the several divisions.]

Department.	Instructor.	Grad. Sch.	Univ. Coll.	Acad. Coll.	Div. Sch.	Total	Department.	Instructor.	Grad. Sch.	Univ. Coll.	Acad. Coll.	Div. Sch.	Total
Philosophy.	Strong.	2	1	2	German.	Cutting.	2	1	2	..	3
	Tufts.	3	1	..	1	3		Schmidt-
	Monin.	1	1		Wartenberg.	2	..	1	..	3
Apologetics.	Mezes.	1	..	..	..	1	von Klenze.	3	2	2	..	3
	Robinson.	2	2	..	2	2	Mulfinger.	..	..	2	..	2
Political Economy. ¹	Laughlin.	2	1	..	..	2	Wilkinson.	2	2	..	..	2
	Miller, A. C.	2	2	1	..	2	Blackburn.	3	2	..	..	3
	Hill.	2	2	1	..	2	Crow.	1	1	..	..	1
	Veblen.	..	..	..	..	..	McClintock.	2	1	..	..	2
Political Science.	Hourwich.	1	1	..	..	1	Tolman.	..	..	2	..	2
	Judson.	2	2	..	..	2	Herrick.	1	1	1	..	2
	Lawrence.	1	1	..	..	1	Lovett.	..	..	2	..	2
History.	Conger.	..	..	..	..	1	Lewis.	..	..	1	..	1
	Wilcox.	1	1	..	..	1	Triggs.	1	1	..	..	1
	von Holst.	2	2	2	Bib. Lit. in	Votaw.	1	..	1
	Terry.	2	1	2	English.	Kent.	1	..	1
	Goodspeed.	1	1	1	(See also Divinity School, Eng. Theo. Sem.)	Moore.	1	..	1	..	2
Social Science and Anthropology.	Thatcher.	..	..	1	..	1	Bolza.	2	1	..	..	2
	Schwill.	1	1	2	..	2	Maschke.	2	2	..	..	2
	Shepardson.	1	1	..	..	1	Young.	1	1	1	..	2
Comparative Religion.	Small.	3	..	..	1	3	Boyd.	..	..	3	..	3
	Henderson.	2	1	..	1	2	Astronomy. ⁷	See.	2	2	..	2	
	Talbot.	1	1	..	..	1	Laves.	1	1	..	..	1
	Starr.	2	2	..	1	2	Michelson.	2½	2½	..	..	2½
Semitics. ²	West.	..	..	..	..	..	Stratton.	1½	1½	..	..	1½
	Goodspeed.	1	1	..	1	1	Hobbs.	..	..	1	..	1
	Harper, W.R.	3	3	..	3	3	Chemistry.	Nef.	4	2	4
Bibl. & Patr. Greek.	Hirsch.	1½	1½	..	1½	1½	Stokes.	3	1	1	..	3	
	Price.	1	1	..	1	1	Schneider.	2½	2½	..	..	2½
	Goodspeed.	(See History)	..	..	..	..	Lengfeld.	2½	..	..	..	2½
	Crandall.	1	1	..	1	1	Stieglitz.	½	..	..	..	½
	Kent.	1	1	..	1	1	Ikuta.	..	..	..	..	..
Sanskrit.	Burton.	2	2	..	2	2	Geology and	Chamberlin.	1½	½	1½
	Arnolt.	1	1	..	1	1	Minerology. ⁸	Salisbury.	1	1	1	..	2
	Votaw.	½	½	..	½	½	Iddings.	3(2)	3(2)	..	..	3(2)
Greek. ³	Buck.	2	..	..	..	2	Whitman.	3	..	..	..	3
	Shorey.	3	2	2	..	3	Baur.	2½	½	½	..	2½	
	Tarbell.	1	3	2	..	3	Jordan.	..	..	1	..	1
Latin.	Castle.	2	..	2	Zoology and	Watase.	Lectures.	2
	Hale, W. G.	2	2	2	Palæontology. ⁹	Lillie.	2	2	2
	Chandler.	2	2	2	Anatomy.	Eycleshmyer	1	1	1
	Abbott.	2	2	Physiology.	Loeb.	4	2	4
	Miller, F. J.	..	..	2½	..	2½	Lingle.	..	..	..	..	..
	Emery.	2	..	2	Neurology.	Donaldson.	2	1	2
Walker, A.T.	..	..	1	..	1	Elocution.	Clark.	..	..	½*	..	½*
Romance	Knapp.	2	2	*Mr. Clark taught, besides, 6 sections, for which credit is given.						
	Bergeron.	3	3	3	ON LEAVE OF ABSENCE.						
	Kinne.	2	..	2	1. Mr. Caldwell. 2. Associate Professor Harper. 3. Assistant Professor Capps. 4. Mr. Howland. 5. Professor Moulton.						
	Cutler.	2	2	2	6. Mr. Hancock. 7. Associate Professor Hale. 8. Professors Penrose and Van Hise. 9. Mr. Wheeler.						
Wallace.	1	1	1	..	1								

2. DEPARTMENTS, WITH NUMBER OF COURSES AND STUDENTS.

Department.	Graduate School.			Univ. Colleges.		Acad. Colleges.		Unclassified Students.	Divinity Students.	Total.	
	DM.	Students.		DM.	Students.	DM.	Students.			DM.	Students.
		Primary Work.	Second'y Work.								
Philosophy, A and B	9	5	15	4	17	...	9	5	3	9	54
Political Economy	7	18	10	6	11	...	30	1	..	7	80
Political Science	4	8	16	4	7	...	..	2	..	4	42
History	7	21	20	6	20	2	44	8	22	9	135
Soc. Science and Athropology.	8	20	6	4	8	...	..	..	22	8	56
Comparative Religion	1	1	1	1	1	...	..	..	6	1	9
Semitic Languages	7½	15	..	7½	..	...	..	2	1	13	31
Biblical and Patristic Greek..	3½	3	1	3½	1	...	..	1	..	30	36
Sanskrit and Indo-Europ. Phil.	2	6	5	..	..	...	..	..	1	2	12
Greek	4	6	18	5	4	6	32	1	1	..	62
Latin	6	20	10	4	3	5½	85	2	5	11½	125
Romance.....	8	9	5	6	5	3	28	16	10	10	73
Germanic.....	7	8	3	3	8	7	48	4	18	..	89
English.....	10	21	13	8	22	6	101	2	42	16	201
Biblical Literature in English.	....	..	..	..	..	2	4	..	47†	2	52
Mathematics.....	6	17	4	4	3	5	70	3	6	11	103
Astronomy.....	3	2	5	3	4	..	..	1	..	3	12
Physics.....	4	2	15	4	1	1	1	3	..	5	23
Chemistry	12½	14	1	5½	7	1	10	..	12	12½	44
Geology and Minerology.....	5½	10	4	4½	4	1	32	1	5	6½	56
Zoölogy and Palæontology....	7½	16	7	2½	6	1½	6	..	4	8½	41
Anatomy	1	..	2	1	2	...	..	2	1	1	7
Physiology.....	4	3	4	2	..	...	..	..	2	4	9
Neurology.....	2	..	5	1	..	...	..	..	1	2	6
Elocution.....	....	..	3	...	1	½	72	..	6	½	82

* This column registers Academic students taking University College Courses.

† This number includes 40 students attending the courses in the English Theological Seminary.

THE FACULTY OF THE DIVINITY SCHOOL.

1. LIST OF DEPARTMENTS, INSTRUCTORS, AND COURSES.

Department.	Instructor.	Courses.	Department.	Instructor.	Courses.
THE GRADUATE DIVINITY SCHOOL.			THE ENGLISH THEOLOGICAL SEMINARY.		
Old Testament Literature and Exegesis.*	Harper, W. R.	3	Old Testament Literature and Exegesis.	Price. Kent	1
	Hirsch.	1½		(see Sem. Lang.)	
	Price.	1	Church History.	Hulbert.	1
	Goodspeed.	1	Systematic Theology.	Simpson.	2
	Crandall.	1	DANISH-NORWEGIAN THEOLOGICAL SEMINARY.		
New Testament Literature and Exegesis.	Burton.	2	Old and New Test. Lit. and Exegesis.	Gunderson.	2
	Arnolt.	1	Homiletics and Pastoral Duties. †	Wold.	1
Votaw.	½				
Biblical Theology.	Burton.	1	THE SWEDISH THEOLOGICAL SEMINARY.		
Church History.	Hulbert.	2	New Test. Lit. and Exegesis.	Morten.	2
	Johnson.	2			
Systematic Theology.	Northrup.	2	System. Theology and Pastoral Duties.	Lagergren.	2
	Simpson.	..			
Homiletics, Church Polity, and Pastoral Duties.	Anderson.	2			

* Associate Professor R. F. Harper on leave of absence.

† Professor Jensen on leave of absence.

2. DEPARTMENTS, WITH NUMBER OF COURSES AND STUDENTS.

Departments.	Graduate Divinity School.		English Theological Seminary.		Danish-Norwegian Theological Seminary.		Swedish Theological Seminary.		
	DM.	Students.	DM.	Students.	DM.	Students.	DM.	Students.	
Old Test. Lit. and Exegesis.....	8½	15	1	40	}	2	7
New Test. Lit. and Exegesis.....	3½	55				2	12
Biblical Theology.....	1	10	..	..	..	..	..	..
Church History.....	3	84	1	19	..	..	..	..
Systematic Theology.....	2	49	2	43	..	..	1½	12
Homiletics, Church Polity, and Pastoral Duties.....	}	2	126	1	7	½	4

COMPARATIVE REGISTRATION OF AUTUMN AND WINTER QUARTERS.

	Registration of Autumn Quarter.			Discontinuing at Beg. of Win. Quarter.		Receiving Degrees or Certifi. Jan. 2, 1894.		Entering at Beg. of Winter Quarter.		Registration of Winter Quarter.		
	Men.	Wom.	Total.	Men.	Wom.	Men.	Wom.	Men.	Wom.	Men.	Wom.	Total.
Graduate School.....	149	65	214	14	6	2	1	52	13	187	72	259
Non-Res. Grad. Students.....	16	2	18	2	1	..	..	8	4	22	5	27
University Colleges.....	35	10	45	4	..	3	..	5	4	32	14	46
Academic Colleges.....	138	88	226	12	11	..	2	16	21	149	101	250
Unclassified.....	35	53	88	7	8	..	1	6	12	37	59	96
Grad. Div. School.....	94	2	96	8	1	2	..	13	..	101	1	102
Engl. Theol. Sem.....	44	2	46	3	..	..	..	2	..	43	2	45
Dan-Norw. Theol. Sem.....	7	..	7	..	..	..	..	1	..	8	..	8
Swedish Theol. Sem.....	12	..	12	..	..	..	..	1	..	13	..	13

Total attendance, Autumn Quarter, 1893: 752.

Registration for Winter Quarter, 1894: 846.

2. ACADEMIC COLLEGES AND UNCLASSIFIED STUDENTS.

	Academic Colleges.	Unclass. Students.		Academic Colleges.	Unclass. Students.		Academic Colleges.	Unclass. Students.
Adelbert College.....	1	..	Harvard School.....	5	..	Oakland High School.....	1	..
Albion School.....	1	..	Hedding College.....	1	..	Oberlin College.....	1	..
Allen's Academy.....	1	..	Henderson High School.....	1	..	Ohio Wesleyan College.....	1	..
Arthur Home, Chicago.....	1	1	Herrig (Miss) School.....	..	1	Omaha (Iowa) High School.....	..	1
Augustana College.....	1	..	Hiram College.....	..	1	Oneida High School.....	1	..
Aurora School.....	1	..	Hope College.....	1	..	Oshkosh High School.....	1	..
			Howard University.....	1	..	Oswego High School.....	..	1
			Hyde Park High School.....	9	..	Oswego Normal & Training Sch..	..	1
						Ottawa University.....	..	1
Baltimore Female High School....	..	1	Illinois College.....	1	..	Packer Institute (Brooklyn,N.Y.)	..	1
Bangor (Maine) Theological Sem..	..	1	Illinois State Normal School.....	..	2	Peddie Institute, N. J.	1	..
Beloit College.....	2	..	Illinois, University of.....	2	1	Pa. State Normal School.....	..	1
Beloit College, Preparatory.....	1	..	Illinois Wesleyan University.....	..	1	Peoria High School.....	1	..
Brockport (N. Y.) State Nor. Sch..	..	1	Indiana, University of.....	..	1	Phillips Academy (Andover).....	2	..
Buchtel College.....	1	..	Iowa State Normal School.....	..	1	Phillips Exeter Academy.....	1	..
Buffalo Normal School.....	..	1	Iowa, University of.....	1	..	Plainfield High School.....	..	1
Burr & Burton Seminary.....	..	1				Plano High School.....	..	1
Butler University.....	1	..	Jamestown High School.....	1	..	Pontiac High School.....	..	2
			Jennings Seminary.....	1	..	Private Instruction.....	..	1
California College.....	..	1				Racine Academy.....	1	..
Canton, Miss.....	..	1	Kalamazoo College.....	2	..	Rochester, University of.....	2	..
Carleton College.....	2	..	Kentucky University.....	2	..	Rockford Seminary.....	1	..
Cedar Rapids (Iowa) High School..	..	1	Kenyon Military Academy.....	1	..			
Cedar Valley Seminary.....	..	1	Kimball Union Academy.....	..	1	St. Catherine's Hall.....	1	..
Chautauqua Coll. of Lib. Arts.....	..	2	Kirkland School, Chicago.....	..	1	St. Louis High School.....	1	..
Chicago Academy.....	4	..				Saratoga High School.....	1	..
Chicago College of Pharmacy.....	..	1	Lake Erie Seminary.....	1	..	Sauk Centre High School.....	1	..
Chicago High School West Div.....	9	..	Lake Forest Academy.....	1	..	Smith College.....	3	1
Chicago High School North Div.....	5	..	Lake Forest University.....	1	..	South Dakota, University of.....	..	1
Chicago High School South Div.....	11	1	Landshut (Germany).....	1	..	South Kansas Academy.....	1	..
Chicago Institute of Technology...	..	1	Real Gymnasium.....	1	..	Spelman Seminary.....	..	1
Chicago Manual Training School...	1	..	Leroy Union School.....	1	..	Stillport Girls' Seminary.....	..	1
Chicago South Side School.....	2	..	Lupton (Miss) School.....	1	..	Syracuse University.....	..	1
Christian University.....	1	..	Lyons High School.....	1	..			
Coe College.....	1	..	Meriden High School.....	1	..	Taganrog Gymnasium (Russia)...	1	..
Colby University.....	1	..	Michigan, University of.....	7	4	Tillston Institute (Austin).....	..	1
Colorado College.....	1	..	Millersburg Female Seminary.....	1	..	Temple College (Philadelphia)...	..	2
Columbian College.....	1	..	Missouri State Normal School.....	..	1			
Cook Academy.....	1	..	Monmouth College.....	1	1	University School (Chicago).....	1	..
Cook County Normal School.....	..	2	Morgan Park Academy.....	11	2			
Cornell College.....	2	..	Morgantown High School.....	..	1	Vassar College.....	1	2
Cornell University.....	2	..	Mt. Hermon School.....	1	1			
			(Northfield Mass.).....	1	1	Washburn College.....	1	..
Decatur High School.....	1	..	Mt. Holyoke College.....	2	..	(Topeka, Kansas).....	1	..
Drury College.....	1	1	Mt. Holyoke Seminary.....	..	1	Wayland Academy.....	1	1
			Mt. Morris College.....	..	1	Wellesley College.....	5	1
Elgin High School.....	1	1	Mt. Vernon Seminary.....	..	1	Wells College.....	1	..
Emporia (Kansas), College of.....	2	..	(Washington, D. C.).....	..	1	Western Normal College.....	..	1
Englewood High School.....	5	1	Nebraska State Normal School...	1	..	Woodstock College.....	1	..
Evansville Classical School.....	1	..	New York, College of the City of..	2	..	Willamette University.....	1	..
Evanston High School.....	1	..	New York State Normal School...	1	..	Williams College.....	2	..
			Northern Illinois College.....	..	1	Williamsport High School.....	1	..
Ferry Hall (Lake Forest).....	2	..	Northwestern University.....	5	2	Wisconsin, University of.....	3	..
Fargo College.....	1	..	Norwich Normal School.....	..	1	Worcester Academy.....	1	..
			Notre Dame, University of.....	1	..	Worcester University.....	1	..
Geneseo Collegiate Institute.....	..	1						
Girl's Classical Sch., Indianapolis	1	..						
Grass Lake High School (Mich)...	..	1						
Hannibal High School.....	1	..						

THE UNCLASSIFIED STUDENTS.

Number of Academic College courses taken by Unclassified Students, 23; number of University College courses, 31; number of Graduate School courses, 4.

Course registrations of Unclassified Students in the Academic Colleges, 127; in the University Colleges, 82; in the Graduate School, 4. Total, 213.

Of the 88 Unclassified students, 42 (12 men and 30 women) registered 75 courses in the English Department, 26 (12 men and 14 women) registered 32 courses in the History Department, 17 (10 men and 7 women) registered 21 courses in the German Department.

Thus out of 213 courses registered by Unclassified Students in the whole University, 128 fall to these three departments.

General purpose of Unclassified Students. About 30 per cent. are working into regular standing in the University; 50 per cent. are studying for advancement in teaching and in semi-professional employments. The remainder are studying for a general education.

The Unclassified Students have, in a majority of cases, come from other institutions. They represent: 21 colleges and universities; 11 academies and seminaries; 14 high schools; 10 normal schools; 3 institutions of Technology, and only 5 received private instruction previous to their entering the University. In all 64 institutions are represented.

DEPARTMENT OF PHYSICAL CULTURE.

THE GYMNASIUM.

MEN'S DEPARTMENT.

Five classes have met for half-hour periods on Tuesday, Wednesday, Thursday, and Friday of each week.

RECORD OF ATTENDANCE.

Graduate School, 15; University Colleges, 17; Academic Colleges, 130; Divinity School, 13. Graduate and Divinity Students working independently, 18; number playing foot-ball daily, 21; number practicing track athletics, 23. Total, 237.

WOMEN'S DEPARTMENT.

Four classes have met for half-hour periods on Tuesday, Wednesday, Thursday, and Friday of each week.

RECORD OF ATTENDANCE.

Graduate School, 2; University Colleges, 6; Academic Colleges, 77; Special, 20. Total, 105. Number of women examined and measured (first measures), 59; number of women examined and measured (second and third measures), 31. Total, 90.

ATHLETICS.

The athletic work of the University has been under the direction of the Department of Physical Culture. Thus far it is organized under the heads: foot-ball, base-ball, track athletics, tennis, and basket ball. During the Autumn quarter of 1893 the athletic work has been largely centered upon foot-ball, track athletics, and tennis.

FOOT-BALL.

The record of the University eleven of 1893 is as follows:

Oct. 14.	University vs. Lake Forest University	- -	0-10
Oct. 18.	University vs. Northwestern University	- -	12-6
Oct. 21.	University vs. University of Michigan	- -	10-6
Oct. 24.	University vs. Purdue University	- -	10-20
Oct. 28.	University vs. University of Cincinnati	- -	28-0
Nov. 4.	University vs. Oberlin College	- -	12-33
Nov. 8.	University vs. Northwestern University	- -	6-6
Nov. 12.	University vs. Armour Institute	- -	18-6
Nov. 18.	University vs. Lake Forest University	- -	14-14
Nov. 30.	University vs. University of Michigan	- -	10-23
Dec. 16.	University vs. Northwestern University	- -	20-14
Jan. 1, 1894.	University vs. Notre Dame University	- -	8-0

The last two games were played in Tattersall's building.

TRACK ATHLETICS.

Considerable interest was aroused among those who elected to take this way of exercising. Several contests took place, one being a public exhibition.

TENNIS.

Four tennis courts were made on the campus by the University authorities. These were in great demand. A Tennis Association has been formed, and now has charge of the tennis interests of the students.

The Official and Semi-Official Organizations.

THE UNIVERSITY CLUBS.

THE UNIVERSITY UNION.

AUTUMN MEETING, DECEMBER 8, 1893.
Theatre, Kent Chemical Laboratory.

PAPERS:

Causes and Effects of Monasticism.

ALFRED WESLEY WISHART.

(Church History Club).

Matter and its States (illustrated).

ROBERT WILLIAM WOOD.

(Chemistry Club.)

Money and Prices since 1865.

SARAH M. HARDY.

(Political Economy Club).

THE PHILOLOGICAL SOCIETY

Organized January 15, 1893, held two meetings on October 27, and December 1, at 8 P.M., Room B 8, Cobb Lecture Hall. The following papers were read:

The Burlesque Ballad in Germany in the XVIII Century. DR. CAMILLO VON KLENZE.

"Extended" and "Remote" Deliberatives in Greek. HEAD PROFESSOR WILLIAM G. HALE.

(To be published in the XXIV volume of the Transactions of the American Philological Association).

Initial Group Consonant + l in the Romance Languages. RENÉ DE POYEN-BELLISLE.

THE DEPARTMENTAL CLUBS.

OCTOBER-DECEMBER.

Papers presented before

THE BIOLOGICAL CLUB.

Facts and Principles in Physiological Morphology. (The Formation of Double Embryos).

ASSISTANT PROFESSOR JACQUES LOEB. Nov. 8.

The Derivation of the Epiphysis and the Parietal Eye.

WM. A. LOCY. Nov. 22.

The Evolution of the Limbs of Vertebrates.

ASSISTANT PROFESSOR G. BAUR. Dec. 20.

THE CHURCH HISTORY CLUB.

Principles in Baptist History.

O. P. GIFFORD, D.D. Nov. 24.

A Study of Comparative Religion.

HEAD PROFESSOR ERI B. HULBERT. Dec. 5.

THE CLASSICAL CLUB.

Lord Elgin in Greece.

ASSOCIATE PROFESSOR FRANK B. TARBELL. Nov. 3.

Review of "Diehl's Excursions in Greece."

CLARA MILLERD. Nov. 24.

An Impressionist's Version of the Frogs of Aristophanes.

PROFESSOR PAUL SHOREY. Dec. 15.

THE ENGLISH CLUB.

Literature and the Mission of the Scientific Spirit.

OSCAR L. TRIGGS. Oct. 23.

English Surnames.

ASSISTANT PROFESSOR A. H. TOLMAN. Nov. 27.

The Christian Coloring in the Beowulf.

ASSISTANT PROFESSOR F. A. BLACKBURN. Dec. 18.

THE CHEMICAL CLUB.

Membership is limited to those taking part in Chemical Journal Meetings. Two papers, either on recent chemical researches or on older classical work, have been presented regularly every week during the Autumn Quarter, on Fridays from 8:00 to 10:00 P.M. The titles of papers have been regularly announced in the WEEKLY BULLETIN. The results of original investigations carried on in the Kent Chemical Laboratory are not presented at these meetings, but appear regularly in the chemical journals here and abroad.

THE EXEGETICAL CLUB.

Hindu Sacrifices.

H. HOWARD. Nov. 27.

THE GEOLOGICAL CLUB.

*Review of Work done in the Field during the Summer of 1893.*PROFESSORS TH. C. CHAMBERLIN
and R. D. SALISBURY, MESSRS.
BOWNOCKER, WHITSON, and
KNAPP.

Oct. 20.

Report on a Recent Visit to England, Wales, and Scotland.

ASSOCIATE PROFESSOR J. P. IDDINGS.

Report of Work done in the Field.

DR. E. C. QUEREAU. Nov. 14.

Pleistocene Elevations. Review by

EMMA WILLARD.

New Jersey Terraces.

C. E. PEET.

Topographic Forms. Review by

H. B. KÜMMEL. Nov. 28.

Structure of the Iowa Coal Measure.

CHARLES H. GORDON.

Pleistocene Rock Gorges of North-Western Illinois.

JOHN A. BOWNOCKER.

Land Slides and their Geological Significance.

DR. JOHN C. MERRIAM.

Thickness of Ice Blocks which gave Rise to Lakelets and Kettleholes.

C. E. PEET.

Faulting in the Appalachians.

H. B. KÜMMEL. Dec. 12.

THE LATIN CLUB.

Interpretation of Horace.

PROFESSOR STUART,

Lake Forest University. Nov. 17.

Horace.

PROFESSOR PAUL SHOREY. Dec. 16.

THE MATHEMATICAL CLUB.

On the History of the Addition Theorem of Elliptic Integrals.

PROFESSOR OSKAR BOLZA. Oct. 20.

Concerning Del Pezzo's Plane Five-Cusped Quintic Curve.

PROFESSOR E. H. MOORE. Nov. 3.

A Study of Certain Special Cases of the Hypergeometric Differential Equation.

DR. J. H. BOYD. Nov. 17.

The Existence of Transcendental Quantities.

DR. J. W. A. YOUNG. Dec. 1.

A Configuration of 140 Lines in Space representing the Substitution Group of 7 Letters.

ASSISTANT PROFESSOR H. MASCHKE. Dec. 15.

THE NEW TESTAMENT CLUB.

Josephus Against Apion.

C. W. VOTAW. Dec. 13.

In addition, this Club has held four Journal meetings on alternate Wednesdays at 2:00 P.M.

THE PALÆONTOLOGICAL CLUB.

The Morphology of the Mosasauridæ.

DR. JOHN C. MERRIAM. Nov. 7.

(Review of the author's paper on the Mosasauridæ, based on material preserved in the Palæontological Museum at Munich).

On the Morphology of the Skull of the Ichthyosauria.

ASSISTANT PROFESSOR G. BAUR. Nov. 7.

(Doubts in regard to the palatal region were cleared up and the phylogenetic position of the Ichthyosauria determined).

The Vertebrae of the Triassic Tanystrophæus. H. V. M.

ASSISTANT PROFESSOR G. BAUR. Nov. 21.

(The true nature of these vertebrae preserved in the Munich Museum was explained, and it was shown that the neural canal is not disconnected, as generally believed, but continuous).

On Globigerina Ooze.

DR. JOHN C. MERRIAM. Nov. 21.

Island Life and Continental Islands.

ASSISTANT PROFESSOR G. BAUR. Nov. 27.

Review of the So-Called Daimonelix.

W. E. TAYLOR. Dec. 4.

The Distribution of the Graptolites in France.

DR. E. C. QUEREAU. Dec. 11.

POLITICAL ECONOMY CLUB.

National Banks in the United States.

HON. E. S. LACEY. Oct. 12.

Methods in the Study of Political Economy.

HEAD PROFESSOR J. L. LAUGHLIN. Nov. 9.

Compensatory Theory of Bimetalism.

JOHN CUMMINGS. Nov. 23.

Development of the Iron Industry in the West.

FRANKLIN H. HEAD. Dec. 7.

POLITICAL SCIENCE AND HISTORY CLUB.

The Evolution of the American Type.

DR. FRANCIS W. SHEPARDSON. Oct. 25.

Geography as a University Subject.

CHARLES T. CONGER. Nov. 8.

The Legal Relation existing between the Mother Country and the Colonies, as maintained by John Adams.

GEORGE TUNELL. Nov. 22.

Naturalization in the English Colonies in America.

CORA A. START. Dec. 13.

THE SEMITIC CLUB.

Cross-Country Sketches in Syria.

DEAN A. WALKER. Oct. 26.

The Babylonian Account of the Deluge.

DR. W. M.-ARNOLT. Nov. 23.

(Printed in full in THE BIBLICAL WORLD, Vol. III., pp. 109-118).

THE SOCIAL SCIENCE CLUB,

Coöperative Life Insurance.

ASSOCIATE PROFESSOR E. W. BEMIS. Oct. 23.

The Chicago Street Boy.

ASSISTANT PROFESSOR FREDERIC STARR. Nov. 20.

The Problem of the Unemployed.

ASSISTANT PROFESSOR C. R. HENDERSON. Dec. 18.

Alternate meetings were Journal meetings, devoted to the review of Periodicals.

ABSTRACTS OF PAPERS.

Read before the University Union, the Philological Society, and the Departmental Clubs.

THE EFFECTS OF MONASTICISM.

ALFRED WESLEY WISHART.

Character largely determines the influence of an individual or an institution. To estimate the effects of monasticism we must consider its essential nature. There is, perhaps, no phase of man's moral development that presents so many startling contradictions as the monastic character. The history of the monks holds up to our view men in all stages of excellence and depravity. A composite picture of the monks must absorb the beautiful and the grotesque, the charms of virtue and the villainies of vice. Monastic orders passed through a mournful history. At their beginning, "girt up so as to take heaven by storm," they gradually lapsed from their position of faithful observance of vows into a state of wealth and corruption.

1. *The Effects upon the Individual.* a. Self-Mortification. The monk, instead of subduing his body, purifying his soul, excited by his overdone fasting the very passions and fancies he tried to crush. b. Seclusion. The monks carried this principle to excess, and the result was pride and a loss of those virtues which are produced by the charities of life.

2. *The Effect upon Society.* a. As respects Literature and Education. The general attitude of the monks toward pagan and secular learning was an obstacle to true intellectual advancement. They were not advocates of mental freedom and fearless inquiry. They fostered the dread of heresy which restrained wide research. b. The Conversion of the Barbarians. It was a task to appall the bravest hearts. The monks displayed heroism, faith, patience, and zeal in the execution of their mission. "The barbarians and the monks re-created a world which was to be called Christendom." c. Agricultural Benefits. The monks reclaimed deserted lands and built their homes far in depths of the forests. They taught many useful agricultural lessons and removed the stigma upon labor.

3. *The Effect upon Religion.* There were many important effects upon religion, chief among which was the fatal distinction

between "secular" and "religious." But all men who enter upon occupations termed secular, if they serve with faithfulness, are performing religious acts. The model for man is not the Christ of the Transfiguration but the honest carpenter, the servant of his fellow-man, and the minister to the needy. Monasticism was a religion for the few. The monk, not man, was revered. "Let the man stand on his feet. Let religion cease to be occasional."

THE BURLESQUE BALLAD IN GERMANY IN THE EIGHTEENTH CENTURY.

CAMILLO VON KLENZE.

Germany is more richly blessed with popular poetry of a high order than any other country. In the sixteenth century the poetry of the people, the "Volkslied," became the vehicle of expression for all classes. High and low, rich and poor, expressed their thoughts and feelings in the form of terse, simple, and naive "Volkslieder." Humanism and the terrible religious wars of the seventeenth century quickly brought about the decay of popular poetry in Germany. Furthermore, during the seventeenth century Germany became entirely dependent on France for her ideals in every department of intellectual life. But France and the Romance countries generally despised the lower classes and were proudly ignorant of their poetry. In Spain and in France this contempt fathered a curious literary phenomenon, the burlesque ballad; it was treated with much skill and no little wit in Spain in the sixteenth century, especially by Quevedo; from there it went to France, and from France crossed over into Germany in the eighteenth century. Gleim was the first to publish burlesque ballads (he called them "Romanzen") in 1756. He found many imitators, most of them inferior even to him, and Germany was flooded with burlesque ballads for years; in fact, such ballads were written to the end of the last century. The most prominent among the ballad writers are Loewen, Schiebeler, and Buerger, but many others

like Hölty, H. L. Wagner, etc., wrote burlesque ballads. There was not a province in Germany in which they were not published some time between 1760 and 1800. The French burlesque ballads were taken as models, but the style of the German burlesque ballads is inferior to those models. Lasciviousness and silliness characterize them throughout. Amusingly enough, they were for a long time mistaken for good imitations of the neglected ballads of the people, and admired even by leading critics. The subjects they treated were generally blood-curdling tales, such as "*Bänkelsänger*" shout even now at fairs in Germany. Fortunately, this avalanche of vile literature was impeded in its course and finally stopped by Herder's masterly treatises on popular poetry (especially the essay on Ossian, 1773). One of the most extreme of the authors of burlesque ballads, Bueger, profited by Herder's teaching. He studied the true ballad of the people, and in 1773 wrote his famous "*Lenore*," in which the unconscious beauties of popular poetry are used by a conscious artist. Although burlesque ballads were written for many years after that, they played an unimportant part for the "*Lenore*" had started German literature along new lines.

[Cf. Also *Proceedings of Mod. Lang. Assn. of America*, New Series, Vol. VIII., pp. xxv. ff.]

CONSONANT + l IN ROMANCE.

RENÉ DE POYEN-BELLISLE.

Meyer-Lübke (Italienische Grammatik § 186) in order to explain the development of such Italian words as *chiamare* out of Latin *clamare*, *piano* <*planum*, *flamma* <*flamma* suggests that the step was taken through a moullated *l*.

Such a development, however, is impossible from a physiological point of view. It is not necessary to examine the cases where the initial consonant is either a labial or a dental. In regard to the *cl* group, it may be said that the *k* sound can no longer be considered as a pure velar stop, being already drawn forward by the following *l*. If, consequently, the *l* did become moullated, the whole group *cl* would necessarily become a palatal compound from which, whatever should remain of the hard *k* stop would swiftly be swept away. And such, in fact, is the case wherever we know that a moullated *l* did develop, because it remains to-day alone; in Spain, for instance, where we find *llava*, *llame*, *llano*, etc. . . .

Dialect-study may throw some light on the Italian development. In the French Créole spoken in the West Indies, an *i* sound is heard between the two consonants; and, it seems more logical to admit that the Italian sounds probably went the same way, the dropping of the *l*, after the *i* had become a full vowel, being entirely in harmony with the working of the *vis minima*. The fact that in the French Créole dialect, words are found fully as advanced in their development as the Italian words, lends additional strength to this supposition; and, if, on the other hand, we add that similar data have been obtained from the study of the Créole spoken in the Mascarens (cf. Adolph Dietrich: *Les Parlers Créoles des Mascareignes, Romania*, vol. xx), we may venture to claim that in the light of these new facts the history of consonant + *l* in Romance may now fairly be considered as written.

PRINCIPLES IN BAPTIST HISTORY.

O. P. GIFFORD.

Definitions do not define a subject so much as they reveal the limitations of him who defines. True history must get back of the events to man and then to the principles which control man. Baptist history from this view, reveals the operation of

three great principles, *viz.*: 1. A belief in the Bible as a rule of faith and practice; 2. The right of private judgment; and 3. The absolute separation of church and state.

A STUDY IN COMPARATIVE RELIGION.

E. B. HULBERT.

The speaker endeavored to remove prevailing misconceptions of the heathen religions by pointing out the true elements which inhere in the religious faith of all nations. Having made such acknowledgments, he proceeded to describe the weakness of non-Christian religions and to show that Christianity supplied those essential truths which man needs, but which paganism does not possess.

"LITERATURE AND THE SCIENTIFIC SPIRIT."

OSCAR L. TRIGGS.

1) *Introduction*: Truth and beauty are correlative; but truth is the object of science, beauty is the essential content of art. Art endures because it is beautiful; it is known imaginatively and emotionally. Scientific knowledge is gathered and classified by the intellect, rationally.

2) *Methods of literary and scientific study*:

(a) Originally, perception was the first process in art and in science.

(b) In completed forms:

(1) In science nature is regarded as becoming. The truth of science is a law. The problem of knowledge is to relate the object of experience, the particulars, with the universal reality or law hidden behind things. The knowledge of science is relative and not absolute.

In art, which is formed out of idea and matter, the particular things are ends in themselves. The problem of scientific knowledge is resolved, the universal (idea) having become particular (things). Art is a real-ideality or an ideal-reality. The knowledge of art is absolute.

(2) In science particular things are instruments, examples of a general law. A flower is of interest to science not because it is beautiful but as a member of a species. Science searches for causes.

In art particular things are regarded as ends in themselves, not as examples of a law. They exist as beautiful objects which appeal directly to the mind that contemplates them.

(3) In science, unity is abstract, hypothetical. The universe, it is hoped, will one day be known and completely classified. Meanwhile science is agnostic. The Final Cause remains forever unknown.

The content of art is idea, the universal essence being revealed in material form. Art unity is therefore real.

These three essential differences indicate the manner in which each study must be approached. The intellectual categories of science are inadequate explanation of artistic materials since the latter are known imaginatively and emotionally, *i. e.*, aesthetically.

3) *The purpose of literary study*: The development of personality. Science enlarges the external world. Literature, the highest of the arts, must increase the inner life, the thought, the imagination, the feelings, the will. To subject literature to scientific methods is to thwart the mission of art in social life. Literature is to be studied aesthetically, in accordance with its essential nature, for the purpose of life.

ENGLISH SURNAMES.

A. H. TOLMAN.

Proper names do not seem to have existed in England before the Norman Conquest. Particular surnames were considered under each of the four great classes: local, patronymic, professional and official, and descriptive names (nicknames). Attention was directed to the interesting record of former stages of civilization that is preserved for us in our surnames taken from occupation.

Many interesting illustrations of the laws of sound-change in the English language are to be found in our surnames. For example, the surname Reed, Read, Reid, etc., was originally a nickname meaning *red*. It is the adjective that has been irregular in its development, not the surname; Chaucer's *reed*, *rede* has a long vowel. *Red* seems to owe its pronunciation to the attraction of such words as *redness* and *redly*, where the vowel of the first syllable was regularly shortened before two consonants. *White* and *whiteness* show a leveling under the long vowel; but Whitman, Whitefield, Whitsunday, etc., show the regular shortening. Thus surnames are largely free from the disturbing influences of analogy, which often interfere with the sound-development of the ordinary words in the language.

[This paper will be printed in vol. x of the *Transactions of the Wisconsin Academy of Sciences, Arts, and Letters*].

THE CHRISTIAN COLORING IN THE BEOWULF.

FRANCIS A. BLACKBURN.

Of the sixty-four passages in the Beowulf that contain any Christian coloring all except three may be explained as the result of slight changes, such as a Christian copyist could easily make. Reasons for thinking that they gained their Christian tone in this way are:

1. The Christian allusion is always short; in a large number it is contained in a single word or phrase. In some of these words, *e. g.*, *metod*, *hel*, etc., we cannot always be sure that the older meaning is not the real one.

2. There is no allusion in the poem to Christ, to the Scriptures, to the atonement or any other Christian dogma, to the Virgin or the saints, in fact to anything distinctively Christian. These omissions are easily explained on the assumption of occasional verbal changes, but are quite incomprehensible on the theory that the author was a Christian, only the subject-matter being heathen.

Three passages, however, cannot be explained on this hypothesis, and must be regarded as interpolations. They are vv. 175-188, in which it is stated that the Danes worshiped idols and knew not the true God; vv. 90-114, containing a reference to the Creation, the Fall and the murder of Abel, and vv. 1261-1266, which repeat the allusion to Cain.

The reason for regarding vv. 175-188 as interpolated is the inconsistency of its statements with the pious expressions put into the mouth of Hrothgar and his fellow Danes; vv. 90-114 are apparently copied into the text unskillfully from a marginal note. This is inferred from the confusion of the passage. Vv. 1261-1266 are simply a repetition of a part of the same story.

The following re-arrangement is suggested, viz.: 102-104; 86-90a [90b-101; 107-110; 105-106; 111-114]; 115-ff. The bracketed verses indicate the assumed interpolation. It will be noticed that if these verses be omitted the story is clear and consecutive, and that the interpolated portion, when thus arranged, is equally clear, except that there is a loss of a sentence or two between v. 101 and v. 105. These lacking sentences have apparently been crowded out by the three verses which [it] is proposed to place before v. 86.

These conclusions point to a poem completed in ante-Christian times, not to one composed by a Christian out of heathen materials.

HINDU SACRIFICE.

H. HOWARD.

Our investigation of this subject must begin with that remote age when the Aryan folk were first advancing into the Punjab—a people simple and hardy, whose religious needs were satisfied by a primitive nature-cultus, yet possessing already the germs of the later sacerdotalism. Even in the Vedas we observe a progressive development of ritualism and superstition.

Of the Vedic gods, two are of special interest in connection with our subject—Agni (fire, Lat. *ignis*), the "divine priest," the mediator, who waits the sacrifice heavenward, and Soma, a vegetable sap, sweet and intoxicating, which, as one of the most acceptable oblations, was held in the highest esteem, and ended by being itself deified.

The object of Vedic sacrificial worship was, according to Barth, the entire pantheon considered as a unit, though many texts seem to contradict this view. If impersonal on its divine side, the rite on its human side regarded one sole personal beneficiary; there was no sacrifice on behalf of an entire community. Oblations might be offered at any place, but the occasions—new and full moon, the beginning of a new season, etc.—were more definitely regulated by custom. The offerings were animals—goats, buffalos, rams, horses—or bloodless gifts, like butter, milk, rice, or soma, accompanied by the chanting of Vedic formulas and hymns.

Whatever theory we may form as to the origin of Hindu sacrifice, whether we trace it to totemism, to primitive monotheism, or to the free play of anthropomorphic fancy, its fundamental principles appear to have been, first, a bargain by which the favor of the gods was bought, and next, a rite of magic efficacy upon which the continuance of the universe depended.

The offerings to ancestors constituted really a religion by themselves, primeval and common to the Aryan and Mongol races alike. Unlike the worship of the gods, this cultus provided a bond of family and gentile union. *Sapindas* and *Samnodakas* gathered to honor the memory of their common progenitor, and to provide him with the nourishment necessary for his ethereal spirit-frame. These offerings, or *Çrâddhas*, are among the modern Hindus celebrated with ruinous extravagance, and the cruel practice of Suttee has been introduced, a custom unknown in early times.

This Vedic system of religion was spread by the Aryan conquests over the greater part of Hindustan. Powerful kingdoms arose, in which, however, the earlier simplicity of manners was corrupted by the law of caste and the oppressive domination of the Brahmans. In their hands, religion degenerated into a wilderness of rites. To the beautiful strains of Veda-song succeeded those arid commentaries named *Brâhmanas*. Sacrifice, more mystic and important than ever, received its highest degree of elaboration; 1000 varieties are catalogued, *ishtis*, *somayâgas*, *purushamedha*, or human sacrifice, which was perhaps borrowed from the conquered aborigines.

This acme of growth was followed by decline, superinduced by various causes—the unwieldiness of the system, the rise of *ahimsâ* or tenderness to animal life, the Mussulman invasions, and above all the growth of sects like Buddhism, and the worship of Vishnu and Çiva. At present the old orthodoxy is completely overshadowed by its offshoots. *Pûjâ*, or worship of one god at a time, seems to have superseded the old impersonal (?) *yajna*. The offerings are generally fruit, rice, flowers, or incense, bloody sacrifices being mostly confined to the worship of such goddesses as Kâli and the other wives of Çiva, and to the aboriginal cultus of the Dekhân.

ON THE HISTORY OF THE ADDITION THEOREM OF
THE ELLIPTIC INTEGRALS.

OSKAR BOLZA.

The paper gives an account of the discoveries of John Bernoulli, Fagnano, Euler, Lagrange and Legendre concerning the addition theorem of Elliptic Integrals of the three kinds.

CONCERNING DEL PEZZO'S PLANE FIVE-CUSPED
QUINTIC CURVE.

E. HASTINGS MOORE.

Clebsch (Crelle, vol. 64) proved that a rational plane curve of order n has at most $\frac{3}{2}(n-2)$ cusps, and so a rational quintic at most four cusps. Del Pezzo (Naples Academy, Feb., 1889) showed that a single quintic (of deficiency $p=1$) exists having cusps at five arbitrarily assigned points of the plane. The quintic, after its plane has been subjected to a Cremona quadratic transformation with fixed points at three of the cusps, appears as a bicuspidal quartic circumscribed about and inscribed in the coordinate triangle; the explicit equation of this quartic is derived.

The quintic is of deficiency 1, of order 5, class 5, with 5 cusps and 5 points of inflexion. It is determined uniquely by its 5 cusps or its 5 inflexional tangents, and in the geometry of the plane pentagon it deserves a place alongside the conic.

A STUDY OF CERTAIN CASES OF THE HYPERGEOMETRIC
DIFFERENTIAL EQUATION.

JAMES H. BOYD.

The paper reviewed presents the results of a study of certain cases of the hypergeometric differential equation made at Göttingen. The cases are those in which the hypergeometric differential equation has a single algebraic solution (Schwarz, *Crelle*, 75, § 7).

The method is the geometric one used by Klein in his lectures on linear differential equations, and in his paper "*Ueber die Nullstellen der hypergeometrischen Reihe*," *Math. Annalen*, Vol. 37, p. 580. The solutions are regarded as functions defined, after the manner of Riemann, by the requirement that the conformal representations which they determine be certain generalized triangles. These triangles are made the starting point of the discussion and are classified geometrically, and the classification of the integrals of the equation is deduced from that of the triangles.

THE EXISTENCE OF TRANSCENDENTAL NUMBERS.

J. W. A. YOUNG.

Lionville (*Journal*, Vol. 16) proved the existence of transcendental numbers by establishing a general property of real, positive, algebraic numbers, and then exhibiting a real, positive number not having this property. Hermite (1874) showed that e is transcendental, and similarly Lindemann (*Math. Annalen*, Vol. 20, 1882) showed that π is transcendental. Weierstrass (*Berl. Berichte*, 1885) gave simpler proofs of the transcendency of these numbers, and also established more general theorems concerning transcendental numbers. Recently (*Math. Annalen*, Vol. 43, 1893) Hilbert, Hurwitz, and Gordan have given simple proofs of the transcendency of e and π , based upon only elementary theorems of the infinitesimal calculus. The proofs of Lionville and of Hurwitz were presented in detail and discussed.

A CONFIGURATION OF 140 LINES IN SPACE REPRESENTING THE SUBSTITUTION-GROUP
OF 7 LETTERS.

H. MASCHKE.

Dr. Maschke gave an account of his paper on a configuration of 140 straight lines in space, published in *Math. Annalen*, Vol. 36. If the straight lines are represented by Professor Klein's supernumerary line-coördinates the configuration arises by applying the permutation group of 7 letters to the 7 coördinates of a straight line of which two sets of three elements are equal. The 140 lines intersect each other in 120 points and lie in 120 planes. Special account was given of a peculiar group of 6 points occurring in the above configuration, called metharmonic points.

JOSEPHUS "AGAINST APION."

C. W. VOTAW.

This tract was written by Flavius Josephus about 100 A. D., probably at Rome. It is a comprehensive and skillful apology for Judaism, directed principally against Apion, an Egyptian-Roman rhetorician, but replying also to the whole class of defamers of the Jews. Book I. answers the charge that the Jews were an upstart nation without a history, by citing early references to the Jewish nation in the historical writings of the Egyptians, Phœnicians, Chaldeans, and Greeks. It also refutes the calumny that the Jews were the leprous offscouring of Egypt driven thence. Book II. replies *seriatim* to the charge of Apion that the Jewish nation had a vile origin, kept an ass-head in their holy place to worship, observed an annual human sacrifice, swore enmity to all foreigners, produced no great men, and so forth. Then the writer gives a complete exposition of the origin, history, religion, laws and customs of the Jews, showing them to have had an honorable and influential career, and to be possessed of institutions greatly superior to those of the Gentile nations. Certainly Josephus puts the best possible appearance and interpretation upon Jewish history, beliefs, and customs; yet the treatise is, in the main, a true and dignified defence, the best apology for Judaism that has come down to us. It is of high historical value, since it contains the estimate put upon his own nation by a learned and able Jew, writing in the full and liberal light of the Græco-Roman world of the first century of our era.

ON GLOBIGERINA OOZE.

J. C. MERRIAM.

Dr. J. C. Merriam reviewed the results of deep-sea dredging, especially of the Challenger expedition. Passing from the shore toward the deeper parts of the ocean, a succession of faunal zones has been established. After passing the littoral fauna there appear in order the Globigerina zone, the Radiolaria zone, the Pteropod zone, and the Red Clay zone, the latter devoid of organic remains.

ISLAND LIFE AND CONTINENTAL ISLANDS.

GEORGE BAUR.

It was shown that islands, according to their origin, may be divided into two groups, viz., islands originated through elevations, and islands originated through subsidence. The theory was established that islands of the first group have a disharmonic distribution of fauna and flora, while those of the second group have a harmonic distribution. The Galapagos Islands.

visited by the speaker, were taken as an example, and from their absolute harmony in distribution it was concluded that they must have originated through subsidence and not through elevation as generally believed.

A REVIEW OF THE SO-CALLED DAIMONELIX.

W. E. TAYLOR.

The so-called Daimonelix is a fossil of gigantic size found in the Miocene of northwest Nebraska and in general shape resembles a corkscrew. It consists of three pieces, viz., spiral, shaft and basal portion, and has been described as of organic origin.

These fossils are probably the casts of the burrows of some large rodent. The horizontal basal portion would then be the entrance, the vertical shaft a place for safety or escape or for admission of air; the vertical spiral being for the ascent of the rodent. This conclusion is fully substantiated by the enlargement (nest) of the basal portion and the presence of undoubted rodent remains.

THE DISTRIBUTION OF GRAPTOLITES IN FRANCE.

E. CHASE QUEREAU.

E. C. Quereau reviewed a paper by Dr. Charles Barrois on the "Distribution of the Graptolitidae in France." The same Graptolite forms occurring in the same horizons of the Cambrian and Silurian deposits as those described by Lapworth, of Great Britain. The association of Graptolites with deep-sea deposits containing Radiolaria was of special significance, indicating that the former lived like the latter on the high seas during some part of their life.

"THE EVOLUTION OF THE AMERICAN TYPE."

F. W. SHEPARDSON.

George Washington is often described as "first in the hearts of his countrymen;" Abraham Lincoln has been called "the first American." The two expressions are not necessarily inharmonious, although the two men were unlike in many respects. The true American was not developed at the time of the first president. He will appear in the West, his characteristics being the best of those which marked the American of revolutionary times, modified by the pioneer life of the "winners of the West," affected by the climate of the Mississippi valley, and still further improved by the intermingling of races from all the earth in the wonderful assimilation of types, which is the feature of American life in the present century.

FROM BEIRÛT TO YABRÛD.

DEAN A. WALKER.

The paper narrates the incidents of a three-days journey made in the summer of 1891 by three of the instructors in the Syrian Protestant College at Beirût in search of a quiet interior town of Syria in which to spend the summer vacation. Yabrûd, on the eastern side of the Anti-Lebanon, is the destination and the route lies through Shtora and Baalbec. It takes four days to make a satisfactory bargain with the muleteers, the difficulties being increased by the expected approach of cholera when Beirût muleteers can charge high prices for transporting the panic stricken people of Beirût to the mountain villages. The contract being made and the party getting under way, the *personnel* of the attendants is described, and the qualities to be

sought in a saddle horse for use on the Syrian roads. The ascent of Lebanon presents fine views of Beirût and the Mediterranean, and from the summit the noble form of Hermon and the beautiful plain of the Bekâa are seen. The camp is pitched the first night at Shtora, the half-way station of the French Diligence Company between Beirût and Damascus. Near Zahleh, a returned Syrian gives his impressions of America, which leads up to a discussion of the present Syrian emigration, its motives and extent, and the attitude toward it of the Turkish government and the United States consul. Baalbec is the second camping place, but space forbids a description of the ruins. The third day's journey is a long one, across the Anti-Lebanon. A threshing floor passed on the way furnishes material for discussion and the theory is presented that the Canadian toboggan and the New England stone-boat are an evolution and differentiation from the Syrian threshing sledge. The weariness of the ascent of the mountain is relieved by an impromptu musical and poetic contest between the cook and second muleteer. The geological formation of the Anti-Lebanon is described and the character of the country beyond. The incidents of the day end with the arrival at Yabrûd and welcome at the house of the Protestant pastor.

LIFE INSURANCE.

E. W. BEMIS.

In this paper was traced the history of business assessment companies, of fraternal insurance companies with lodges, and of those without lodges. All three usually start with a very low death rate, six or eight in a thousand members, but the rate gradually increases to twelve and even occasionally to sixteen. But even then the cost is less than in old line companies, and no fraternal insurance association of national character and based on lodge features has been known to fail. The danger is that new assessment companies with a lower death rate may attract the younger and healthier members of old companies, thus involving them in abnormally high and fatal cost from a high death rate. Some of the best assessment companies are trying, with a fair prospect of success, to guard against this by grading assessments more scientifically, according to the age of members admitted.

The assessment system of insurance is especially helpful to those who only desire insurance from about the age of thirty to that of fifty-five, and are willing to invest in a good building and loan association or otherwise, from year to year, the difference between the expense of an old line policy and that of a business assessment company. Such persons could afford, at the age of fifty-five, to drop all insurance and yet be better off in most cases than those insured in old line companies. But the latter, it must be admitted, provide at present a more secure insurance than do assessment companies.

No system of state insurance could be expected to be cheaper than the best assessment insurance, but it could be made more secure and so arranged that the employers and the state might bear a portion of the expense.

State regulation and strict enforcement of wise laws, of which Massachusetts furnishes the best examples, should be had in matters of insurance of all kinds in every state in the Union.

THE CHICAGO STREET BOY.

FREDERICK STARR.

The speaker had studied the street boy as an object of scientific interest, not from a philanthropic motive. His acquaintance is chiefly on Madison and State streets and west to Halsted

street. Street boys are no longer Americans; but few are Irish; most are Italians and Russian Jews, with a few Polacks, Afro-Americans, etc.

Individuals and types were described. "Sam" was of the industrious type and represents the Russian Jews. He asks no odds; needs no interference. He makes \$4 or \$5 a week selling papers. An Irish comrade sells \$1.20 in a day and goes to night school. The little boys are sometimes plundered by larger ones.

A "bum" is a boy who has run away from home. Hundreds of them are on the streets every night. One, a bootblack of twelve, has money in the bank.

A "sleep-out" is despised by newsboys and bootblacks. He sleeps in boxes or doorways or near a furnace. Many are pick-pockets; they go in gangs of ten or twenty. One man keeps out six boys begging, who sometimes bring him \$15 a day. Of the six, two were cripples, two are fixed up with an arm in a sling, two have "scalded" hands. Two made \$12 some days at the World's Fair. While one picked the pockets, his "partner," a boy of nineteen, "stood by" to confuse the victim. Another rich ground was where drunken men slept. Decent boys are not well "up" in thieves' slang.

METHODS OF CARING FOR THE UNEMPLOYED.

C. R. HENDERSON.

The unemployed were classified according to their personal condition, the unfortunate, the partially futile, the incompetent and feeble, the chronic beggar and vagrant, the semi-criminal and criminal. The same persons were further classified as homeless and resident poor.

The historical methods of care were described: the English and American poor houses, with and without labor tests; the Dutch Home Colonies; the German Labor Colonies. A system of care was outlined which might combine the advantages of each method and be adapted to American conditions.

DANISH-NORWEGIAN LITERARY SOCIETY

of the Theological Seminary, met on alternate Mondays at 8:00 P.M. Biographical sketches were read of *Oehlenschläger*, *Ansgar*, *Savonarola*, *Oliver Cromwell*, and *Gustavus Adolphus*. Musical entertainment was furnished from time to time. The whole number of members is 12.

THE CHRISTIAN UNION AND OTHER RELIGIOUS ORGANIZATIONS.

The officers of the Christian Union have pleasure in reporting progress during the past Quarter and bright prospects for the future.

REPORT OF THE COMMITTEE ON BIBLICAL STUDY.

PROFESSOR HENRY DRUMMOND, LL.D., Glasgow.

The Elements of Life. October 1, 3:30 P.M.

DR. CHARLES F. KENT delivered a course of six lectures on *The Prophecy in Northern Israel*, Sunday afternoons at 3:30 o'clock. The series included the following topics:

The Prophet in Northern Israel's Early History. October 22.

The Mission of Amos. October 29.

The Message of Amos. November 5.

Hosea's Life-Experience and its Application, November 12.

Later Sermons of Hosea. November 19.

The Work and Teachings of the Northern Israelitish Prophets. November 26.

REPORT OF THE COMMITTEE ON PUBLIC WORSHIP.

The following addresses have been delivered before the Christian Union on Sunday evenings, from October to December.

REV. S. J. MCPHERSON, D.D., Chicago.

The Hero of Common Life. Romans i. 5-6. The University Sermon. October 1. Hyde Park Presbyterian Church.

PROFESSOR HENRY DRUMMOND, LL.D., Glasgow. *Temptation.* October 8.

REV. CHARLES R. DICKINSON, D.D., Boston, Mass. *The Institutional Church.* October 15.

PROFESSOR T. J. LAWRENCE, The University. October 22.

REV. FRANK FOOTE, India. *India.* October 29.

MR. W. T. STEAD, Editor of *Review of Reviews*, London, Eng. *Be a Christ.* November 5.

REV. H. W. THOMAS, D.D., Chicago. *The New Theology.* November 12.

REV. THOMAS C. HALL, D.D., Chicago. *The Friend of God.* November 19.

PROFESSOR BENJ. S. TERRY, The University. *Christ, the Enthroned Priest.* November 26.

ASSOCIATE PROFESSOR E. W. BEMIS, The University. *Thy Kingdom Come.* December 3.

HEAD PROFESSOR ERNEST D. BURTON, The University. *Bible Study, its Aims and Methods.* December 10.

(Union meeting of the Y.M.C.A., the Y.W.C.A., and the Christian Union).

HEAD PROFESSOR J. L. LAUGHLIN, The University, AND MISS JANE ADDAMS, Chicago.

Social Work in Chicago; University Settlements. December 17.

REPORT OF THE COMMITTEE ON PHILANTHROPIC WORK.

Working upon the plans suggested by the investigations of last year, this Committee has leased a building for social settlement work and fitted it up as a comfortable residence. Competent graduate students have already made their home with the people of the selected neighborhood. An alliance for united service has been formed with educational associations in the city, and under this arrangement work for children and youth begins at once with a Day Nursery, Kindergarten, and Classes and Libraries for youth. Arrangements are made for good books, wholesome recreations, attractive entertainments, and

concerts, in which the personal services of members of the University will find place. Members of the faculties and student body have already manifested, by labor and gifts of money, the highest degree of interest in the enterprise, and the foundations are laid in confident expectation of patient and generous support.

REPORT OF THE COMMITTEE ON SOCIAL LIFE.

The Christian Union joined with the Young Men's Christian Association and the Young Women's Christian Association in the social reception of the Autumn Quarter. In many ways fellowship has been promoted, especially by visits in sickness.

REPORT OF THE YOUNG MEN'S CHRISTIAN ASSOCIATION.

At the commencement of the Autumn Quarter, the Association issued a Students' Hand-Book. The edition of 1200 copies was distributed free.

The Autumn Reception to new students was held in conjunction with the Young Women's Christian Association on October 7. The reception was well attended.

The regular meetings of the Association have been held on Friday and Sunday evenings. The former is a men's meeting; the average attendance has been 30. The Sunday evening meeting is held in conjunction with the Young Women's Christian Association, and during the Quarter has had an average attendance of 40.

Two classes for Devotional Bible Study have been formed. Twelve of the members have joined the classes.

The present membership of the Association is 161, of whom 46 have been added this Quarter.

The following are the Committees of the Association:

Executive Committee:

President, Theo. G. Soares; Vice President, Bruce Kinney; Corresponding Secretary, Wm. B. Owen; Recording Secretary, S. W. Jameson; Treasurer, Jos. E. Raycroft.

Membership Committee:

F. D. Nichols, J. B. Whaley, S. D. Barnes, E. A. Bowen, F. W. Woods, G. N. Knapp.

Devotional Committee:

A. T. Watson, O. G. Markham, H. H. Hewitt, J. F. Hosis.

Missionary Committee:

W. A. Wilkin, J. F. Hunter, A. E. Goodman.

Bible Study Committee:

W. E. Wilkins, T. A. Gill, E. V. Pierce, L. J. de Swarte.

Finance Committee:

Jos. E. Raycroft, H. G. Gale, W. L. Archibald, U. S. Davis, W. P. Behan, F. R. Barnes.

REPORT OF THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION.

During the Autumn Quarter the Association has gained steadily in membership, in interest, and attendance. The membership at present is 87, as against 32 a year ago. Two meetings are held each week. A union meeting with the members of the Young Men's Christian Association on Sunday evening at 6:45 in Cobb Lecture Hall, also a noon prayer meeting for women only, Thursday, at 1:30, in the same lecture room. During the quarter just passed a branch known as the Dormitory Branch of the Y. W. C. A. has been formed. This aims to work exclusively among the women living in the University Houses, and conducts a house prayer meeting in each of the houses once a week. At these meetings the subject assigned for the Thursday noon meeting is considered.

The following are the committees:

Executive Committee:

President, Zella A. Dixon; Vice President, Jean E. Colville; Recording Secretary, Louise Goodhue; Treasurer, N. J. Carpenter; Corresponding Secretary, Harriet C. Agerter.

Reception Committee:

Harriet C. Agerter, Mary Scarff, Dr. Alice B. Foster, Belle Pettegrew.

Membership Committee:

Mary Maynard, Louise Goodhue, Laura A. Jones, Stella Robertson, Charlotte Coe.

Prayer Meeting Committee:

Jean E. Colville, Emma Shafer, Elizabeth Crowther, Mary Castle, Flora M. Thompson.

Missionary Committee:

Cora Jackson, Laura Willard, Ella M. Keith, Harriet C. Agerter, Flora M. Thompson.

Finance Committee:

N. J. Carpenter, J. K. Boomer, Marion Morgan, May Rogers, V. E. Woodward.

Publication Committee:

Jean Colville, Mary Maynard, Harriet C. Agerter, Cora Jackson, N. J. Carpenter.

SPECIAL MISSIONARY AND OTHER RELIGIOUS MEETINGS.

Missionary Society of the Divinity School.

The following addresses were made during the Autumn Quarter :

REV. WM. M. UPCRAFT, of Western China, on *some of the Chief Difficulties to be met in the Far Interior of China* (October 24).

These were :

1. A lack of confidence on the part of the Chinese in the missionaries previous to a mutual thorough acquaintance. It is hard for them to conceive of a disinterested motive.
2. The sacrifice necessary on the part of a native in becoming a Christian. He becomes an outcast, loses social position, political influence, and business advantages.
3. This calls forth the system of compromise prevalent among the Chinese. They expect every man in business, philosophy, or religion to be ready to yield in part for the sake of an agreement.

DR. C. E. HEWITT (Nov. 26). *City Missions and the Divinity School.*

Dr. Hewitt, as Secretary of the Educational Society, spoke from a long experience on the points of contact possible between the Divinity School and the city missions. City missions give to the student an opportunity for engaging to some extent in what is to be his lifework ; while at the same time allowing him to continue his studies. They also give him a laboratory for practical study and experiment. The department of city missions should be thoroughly organized with respect to the University, and certain parts be under the special care of the Divinity students.

Reports by MESSRS. E. A. READ, I. W. ALLEN, and T. G. CRESSEY (Nov. 28), who were chosen delegates to the fourteenth annual convention of the American Inter-Seminary Missionary Alliance, held at New Haven, October 26-29, 1893.

REV. E. BOSWORTH, of the Grand Ligne Mission, Quebec (Dec. 14). *Romanism in Quebec.*

Mr. Bosworth referred to the statue of Ignatius Loyola facing the main entrance of the Jesuit Retreat, Quebec City, in which Loyola had crushed to the ground a victim clutching the Bible to his arms, and said that it was in the interest of an open Bible and an education sufficient to read it and apply it, that he spoke. The Grand Ligne Mission is the oldest French Protestant mission in North America. Twenty thousand dollars per annum is now being used for its work, but double the amount would not meet its great need.

REPORT OF THE VOLUNTEER BAND.

Eight meetings were held during the last quarter with an average attendance of nine. Six persons have signed the pledge since November 1. The Band has been studying the "*Volunteer Series*" No. 2, and this course of study will be pursued during the current quarter. Meetings will be held every Thursday at 5 P.M. in *Lecture Room, Cobb Lecture Hall.*

EXERCISES IN THE UNIVERSITY CHAPEL.

CHAPLAINS DURING THE AUTUMN QUARTER.

President William R. Harper. October 1-8.
Recorder Ch. R. Henderson. October 9-15.
Head Professor J. L. Laughlin. October 16-22.
Dean H. P. Judson. October 23-29.
Dean McClintock. October 30-Nov. 4.
Dean E. B. Hulbert. November 5-11.
Professor T. J. Lawrence. November 12-18.
Head Professor A. H. Small. November 19-25.
Head Professor Ernest D. Burton. November 26-December 1.
Head Professor Th. C. Chamberlin. December 2-8.
Professor W. C. Wilkinson. December 9-15.
Assistant Professor Martha Foote Crow and Professor E. H. Moore. December 16-22.

CHAPEL ADDRESSES AND EXERCISES.

From October 2-December 18, 1893.

PRESIDENT WILLIAM R. HARPER, The University.
Address of Welcome. Monday, October 2.
PROFESSOR HENRY DRUMMOND, LL.D., Glasgow, Scotland.
Christian Work in Edinburgh University. Tuesday, October 3.
The Individual Christian. Wednesday, October 4.
Social Religion. Thursday, October 5.
Growing Beliefs. Tuesday, October 10.
Comfort and Stimulus in Religion. Thursday, October 12.

REV. KERR B. TUPPER, D.D., Denver, Col. Wednesday, October 11.

REV. H. L. WAYLAND, D.D., Philadelphia.
New Elements of Education. Friday, October 13.

PROFESSOR ALICE FREEMAN PALMER, PH.D., L.H.D.,
The University.

Discrimination. Tuesday, October 17.

REV. MATTEO PROCHET, D.D., Rome, Italy.
The Modern Waldenses. Monday, October 18.

REV. L. A. CRANDALL, D.D., Chicago.
A Visit to Toynbee Hall and the People's Palace.
Monday, November 13.

PAUL DU CHAILLU, New York.
Africa. Monday, November 27.

REV. W. W. FENN, D.D., Chicago.
Temptation and Opportunity. Tuesday, November 28.

REV. T. C. HALL, D.D., Chicago.
Service. Wednesday, November 29.

MR. S. E. JACOBSON (violinist), accompanied by MR.
WILLIAM SHERWOOD (pianist), Chicago, rendered
the *Kreutzer Sonata* of Beethoven. Thursday,
November 9.

MISS NEALLY STEVENS (pianist), Chicago. Thursday,
November 16.

REV. L. P. MERCER, D.D., Chicago.
Morals and Religion. Tuesday, December 5.

PROFESSOR E. D. BURTON, The University.
Life and Teachings of Jesus. Friday, December
8; Wednesday, December 13; Wednesday,
December 20; Thursday, December 21.

MR. G. F. ROOT, Mus.D., Chicago.
Musical Culture. Thursday, December 14.

MISS M. DIETRICKSON, Chicago.
Vocal Solos. Monday, December 18.

UNIVERSITY LECTURES.

MR. HENRY SATOH, on *The Moral Conceptions of the Children of Japan (Yamato)*. Chapel, Cobb Lecture Hall, 3:00 P.M. Tuesday, December 12.

THE UNIVERSITY HOUSES.

GRADUATE HALL.

Organization.—Head, CHARLES F. KENT; Counselor,
Head Professor A. W. Small; House Committee,
(the above *ex-officio*), Assistant Professor O. J.
Thatcher, R. Waterman, H. R. Hatfield, S. B. Barrett,
H. B. Learned.

MEMBERS.

Atkinson, D. E., Bachellé, C. V., Barrett, D. C., Barret, E. C., Barrett, S. B., Boyd, C. S., Boyd, J. H., Carroll, P. P., Conger, C. F., Cummings, J., Davis, W. S., Dickie, H., Emery, V. J., Farr, M. S., Hastings, C. H., Hatfield, H. R., Herrick, R. W., Hill, H. B., Hill, W., Hubbard, H. D., Hunter, G. L., Hymen, J. B., Ikuta, M., Innes, S. L., Kent, C. F., Lovett, R. M., Learned, H. B., Markham, O. G., McKinley, A. E., Murphy, H. C., Poyen-Bellisle, R. de, Schwill, F., Soares, T. G., Squires, V. P., Thatcher, O. J., Triggs, O. L., Tunell, G., Walker, A. F., Walker, D. A., Waterman, R., White, H. K., Whitney, A. W., Wilcox, W. C., Wilkins, W. E., Wood, A. A.

GUESTS.

Mandel, E. F., Sanders, E. F. Total, 47.

TREASURER'S REPORT.

Receipts.—Loan from the Board of Trustees of the University of Chicago, for the equipment of the house parlor, \$150.00.

Expenditures.—Table, \$15.00; Lounge, \$63.00; Pillows, \$9.00; Picture and Frame, \$18.00; Curtains, \$15.08; Window Seat, \$9.00; Cushions for Window Seat, \$15.00; Globes for Gas Fixtures, \$2.25. Total, \$146.33. Balance not expended, \$3.67.

EVENTS IN THE HISTORY OF THE HOUSE.

Room 1 was presented to the House by the Board of Trustees for a house-parlor and the room of the Head. In the second week of the Autumn Quarter the House was organized and by-laws adopted. In November the walls of the various rooms of the House were tinted and the floors painted. A loan of \$150.00 having been granted to the House for the equipment of the parlor,

this amount was expended in the purchase of a lounge, window-seat, curtains, picture, table, and globes for gas fixtures.

At a regular meeting of the House held January 12, 1894, a committee was appointed to provide daily papers and periodicals for the parlor. At the same time another committee of five were elected to cooperate in developing the social life of the House among the members and guests. General receptions being a practical impossibility owing to limitations in space, it was enacted that "The Head of the House shall be empowered to permit the giving of receptions by individual members in the House parlor, and that on such an occasion the parlor and equipment shall be placed at the disposal of the members thus entertaining."

Three serious obstacles make the development of the social life of Graduate Hall especially difficult: (1) The lack of strong common bonds between the instructors, graduate students and academic students constituting the membership. (2) The limitations of space, the parlor not being large enough to accommodate one-half of the members at once. (3) The fact that the greater number of the members are graduate students, and hence have little time, aside from their work, for social intercourse. The problem being a peculiar one cannot be met by the ordinary methods. The social side of the House life must be accommodated to the work. And yet the value of the few moments devoted to social intercourse cannot be overestimated. To employ these most pleasantly and profitably is what is required; and it is felt that the periodicals and an embryo butler's pantry, combined with good fellowship, are doing much to meet this requirement.

SNELL HOUSE.

Snell House was organized at a meeting held in the University Chapel October 4, 1893. The officers are: Head of House, A. A. STAGG; Counselor, Professor H. P. Judson; House Committee, J. Lamay, J. E. Raycroft, P. Rand, and H. C. Lozier; Treasurer, P. F. Carpenter. Mr. Carpenter was elected to fill the vacancy caused by the resignation of William Rullkoetter.

MEMBERS.

Atwood, H., Axelson, G. W., Barrett, C. R., Carpenter, P. F., Church, H. B., Colnon, A. T., Dickerson, S. C., Dibell, C. D., Dougherty, H., Dougherty, R., Fox, H. W., Gale, H. G., Grant, G. K., Hardesty, J., Hartley, C. E., Harvey, S., Hering, F. E., Hesse, B. C., Hoebeke, C. J., Hoscic, J. H., Howard, H. C., Hulshardt, J., Hunter, J. F., Johnson, R. H., Kohlsaat, P., Lamay, J., Leiser, J., Lozier, H. G., Macomber, C. C., Marsh,

I. C., Maxwell, F. H., Mitchell, P. S., Mosser, I. C., Munhardt, W., Nichols, F. D., Northrop, F., Pascal, J., Peterson, H. A., Raycroft, J. E., Rullkoetter, W., Rice, E. W., Sass, L., Shallis, G. W., Simpson, B. J., Sperans, J., Stowell, R. G., Tanaka, K., Tooker, R. N., Vanderploeg, B., Voight, J., Wieland, O. E., Williams, J., Williams, J. W., Willis, H. P., Wilson, W. O., Wolf, H. D., Wright, S. E., Wyant, A. M. Total, 58.

THE CHIEF EVENT IN THE HISTORY OF THE HOUSE

Was the formal opening of the Club Room on Monday, January 22, when a reception was given. This room has been beautifully finished with oak wainscoting and oak floor, the result of a donation of \$250.00 from the Board of Trustees.

BEECHER HOUSE.

Organization.—Heads, MISSES ELIZABETH WALLACE and FRANCES BROWN; Counselor, Dr. Frank Miller; House Committee, Misses Cutler, Scofield, Williston, Wallace and Brown.

MEMBERS.

Misses Agerter, Battis, Brown, Clark, Cornish, Crandall, Crotty, Cutler, Davis, Dawes, Farr, Foster, Gilbert, E. T., Gilpatrick, Goodspeed, Mrs. Gray, Misses Heron, Hubbard, Kerr, Klock, Livingstone, McCasky, Maynard, Mitchell, Osgood, Porter, Reese, Scofield, Sturgis, Thompson, Van Vliet, Walker, Wallace, Wallin, Wilmarth, Williston, Wolfe, Wollpert.

GUESTS.

Misses Crouther, Gilbert, G. P., Judson. Total, 41.

TREASURER'S REPORT.

Received for guest room-rent during October, \$53.00; November, \$6.75; December, \$2.75. Total, \$62.50.

Deduction for laundry, service, etc., \$5.00. Amount due the University, \$57.50. Received for furniture tax, \$82.50.

CHIEF EVENTS IN THE HISTORY OF THE HOUSE.

The House organized at the beginning of the Autumn Quarter with fourteen members, and at the beginning of the second term twenty-four students of the University, who had been guests during the first term, became members by the vote of the House. Official receptions are held on the first Monday of every month. The House received, on the occasion of its first reception, the present of a jardinière from Mrs. Wilmarth. The guests of the House, during the first term, presented to Beecher a tea table. Mrs.

Beecher gave the House a Christmas present of a grand piano. Mrs. W. B. Walker furnished the parlor with two couches, two arm chairs, a rocking chair, stool, table and cover, a palm, lamp, and cushions. Mr. Silas Cobb loaned two oil paintings. Mrs. Wilmarth, Mrs. C. M. Henderson, Miss Buckingham, Mrs. David Kelly, Mrs. James Walker, Mrs. Byron Smith, Mrs. A. A. Sprague, Mrs. J. J. Glessner, gave also sofa cushions to the House, as a Christmas present.

NANCY FOSTER HOUSE.

Organization.—Head, MISS MYRA REYNOLDS; Counselor, M. D. McClintock; House Committee, Laura A. Jones, Florence Walker, Mary Scarff; Entertainment Committee, Mary B. Hancock, Grace Jackson, Jane Weatherlow; Convenience Committee, Gertrude P. Dingee, Mary Spalding, Josephine Hutchings. The head of the House is *ex officio* member of all committees. Secretary and Treasurer, Gertrude P. Dingee.

MEMBERS.

Charter Members, Misses Barrett, Cooke, J., Daniels, Dingee, Foster, Jackson, Jones, Marot, Spalding, Scarff, Reynolds.

Guests invited to become members of the House in November: Misses Austin, Beardsley, Blaine, Bowen, Casteel, Clapp, Cook, Cooke E., Deaton, Dougherty, Ellis, Fenelon, Hancock, Hopkins, Hubbard, Hutchings, Kells, Love, Millard, Morgan, Nelson, Shafer, Strawn, Stebbins, Taylor, Weatherlow, Witt. Five of these declined to become members and continued as guests.

TREASURER'S REPORT.

Eighty-five dollars received and paid over. [2.50 still due.]

CHIEF EVENTS IN THE HISTORY OF THE HOUSE.

A House warming; two Monday receptions; Hal-loween celebration; meeting of the Classical Club; luncheon served to the teachers of the Cook County Association; Wellesley reception. The House maintains Wednesday evening prayer meetings and a Sunday morning song service.

KELLY HOUSE.

Organization.—Head, MISS MARION TALBOT; Counsellor, Professor J. L. Laughlin; House Committee, Misses Ely, Pellett, Start, Lathe, Runyon, and McClintock.

MEMBERS.

Misses Almy, Butler, Cary; Mrs. Clark; Misses Comstock, Dirks, Diver, Downing, Ely, Hulbert, C., Kane, Lathe, McClintock, McDougal, McWilliams, B., Messick, Pellett, Perkins, Pettigrew, Purcell, Robertson, Roche, Runyon, Start, Sylla, Talbot, Tefft, and Woodward.

GUESTS.

Misses Ballou, France, Hardcastle, Hulbert, E. L., McWilliams, A., Niblock, and Smith, E. J.

TREASURER'S REPORT.

Amount received from furniture tax and paid to Mr. Grose, \$77.50.

CHIEF EVENTS IN THE HISTORY OF THE HOUSE.

Receptions on November 13 and December 11, each attended by 150 members of the University and townspeople. Entertainment on November 25, given by the House toward a fund for the purchase of furniture. Amount raised \$40. Expended on parquetry floor for reception room.

THE REGISTRAR'S REPORT

The receipts from the room rents in the five dormitories were \$6,613.09. These were pretty evenly divided between the Halls, as follows: Snell Hall, \$1,649.01; Foster Hall, \$1,219; Kelly Hall, \$1,243; Beecher Hall, \$1,280.75; and Graduate Hall, \$1,220.66. The number of rooms occupied in the dormitories during the Quarter was as follows: In Snell Hall, with 64 rooms, every room was taken. In Graduate Hall, with 32 rooms, all were taken. In Beecher Hall, with 43 rooms, 37 were taken. In Kelly Hall, with 42 rooms, 35 were taken. In Foster Hall, with 48 rooms, 38 were taken. This makes, in total, 206 rooms occupied out of a possible 228.

THE QUARTERLY CALENDAR.

THE EMPLOYMENT BUREAU.

REGISTRATION.

SCHOOL.	NUMBER REGISTERED.	RECEIVED WORK.	RECEIVED NO WORK.
Graduate, -	35	25	10
Colleges, -	46	36	10
Divinity, -	12	9	3
Special, -	4	3	1
	<u>97</u>	<u>73</u>	<u>24</u>

MISCELLANEOUS.

Average amount earned in each situation, - \$34.41.
 Number receiving more than one situation, - 9

OCCUPATIONS AND EARNINGS.

OCCUPATION.	NUMBER ENGAGED.	TOTAL AM'T EARNED.
Tutoring, - - - -	8	\$138 00
Public School Teaching - -	10	1,180 00
Commons Work - - - -	20	736 78
Building and Grounds - -	7	56 75
Clerking - - - -	8	247 20
Stenography and Typewriting	12	247 52
Hotel and Housework - -	9	102 45
World's Fair Work - - -	3	54 00
Paper Carrying - - - -	1	12 00
Newspaper Correspondence,	1	45 00
Canvassing - - - -	3	2 00
Total - - - -	<u>82</u>	<u>\$2,821 70</u>

Of the 24 not receiving work, there were:
 9 Registered for some special teaching only.
 2 Registered for future work only.
 4 Offered work not accepted.
 4 Women for whom suitable work was not found.
 5 Registered late.

THE STUDENT'S FUND SOCIETY.

The Committee of the Faculty to consider applications for loans from the Student's Fund Society report as follows for the Autumn Quarter:

Applications Received:

1) Graduate Schools - - - -	11
2) University Colleges - - - -	4
3) Academic Colleges - - - -	11
Total - - - -	<u>26</u>

Loans Recommended;

1) Graduate Schools - - - -	2
2) University Colleges - - - -	3
3) Academic Colleges - - - -	3
Total - - - -	<u>8</u>

On the remainder action was deferred to the following Quarter.

The University Extension Division.

THE LECTURE-STUDY DEPARTMENT.

NATHANIEL BUTLER, JR., *Secretary.*

COURSES OFFERED DURING THE AUTUMN QUARTER.

II. POLITICAL ECONOMY.

ASSOCIATE PROFESSOR BEMIS.

Questions of Labor and Social Reform.
Questions of Monopoly and Taxation.
Money.

III. POLITICAL SCIENCE.

MISS BROWN.

The United States ; The Making of a Nation.

MR. CONGER.

Historical and Political Geography.

IV. HISTORY.

PROFESSOR LAWRENCE.

The Growth of Democracy among the English-Speaking Peoples.
The Beginnings of English Freedom.
Some Great English Rulers and Statesmen.
The Puritans and their Political Work.
English Parties and American Independence.

PROFESSOR TERRY.

An Introduction to the Study of History.
The Ethnic Foundation of Modern Civilization.
Political Foundation of Modern Civilization.

ASSISTANT PROFESSOR THATCHER.

The History of the Middle Ages.
Mohammed, Mohammedanism, and the Crusades.

MR. GROSE.

The Political Development of the European Nations since 1792.
The Founding of the German Empire of To-Day.
Studies in the History of Europe from the French Revolution to the Present Time.
Character Studies in Nineteenth Century History.

DR. SHEPARDSON.

Social Life in the American Colonies.

MR. HODGIN.

American Discovery and Colonization.
American Revolutionary History.
The Great Compromises.

MR. HUNTER.

Roman, Barbarian, and Christian.

MR. POTTER.

The Colonial Era.
The Making of the Nation.

MR. WISHART.

Monks and Monasteries.

V. SOCIAL SCIENCE AND ANTHROPOLOGY.

HEAD PROFESSOR SMALL.

First Steps in Sociology.

ASSISTANT PROFESSOR HENDERSON.

Charities and Corrections.

ASSISTANT PROFESSOR STARR.

Some First Steps in Human Progress.
The Native Races of North America.
Prehistoric Archæology of Europe.
Evolution.

MR. ZEUBLIN.

A Century of Social Reform.
The Industrial Revolution.
English Fiction and Social Reform.

MR. GENTLES.

First Aid to the Injured.

MR. FULCOMER.

Christianity and Social Science.
Means of Social Reform.

VII. THE SEMITIC LANGUAGES AND LITERATURES.

MR. WALKER.

The History and Institutions of Islam.

X AND XI. THE GREEK AND LATIN LANGUAGES AND LITERATURES.

PROFESSOR SHOREY.

Six Readings from Horace.
Homer, the Iliad.
Studies in the Greek Drama.

ASSOCIATE PROFESSOR BURGESS.

Preparatory Latin Teaching.

ASSISTANT PROFESSOR CASTLE.

The Decline and Fall of Greece.

DR. MILLER.

Virgil.

XIII. GERMANIC LANGUAGES AND LITERATURES.

ASSISTANT PROFESSOR CUTTING.

Goethe.

XIV. THE ENGLISH LANGUAGE AND LITERATURE.

PROFESSOR MOULTON.

Studies in Biblical Literature.

Ancient Tragedy for English Audiences.

Stories as a Mode of Thinking.

Spenser's Legend of Temperance.

Literary Criticism and Theory of Interpretation.

Shakespeare's "Tempest" with Companion Studies.

ASSOCIATE PROFESSOR BUTLER.

Preliminary Course in English Literature.

American Literature.

ASSISTANT PROFESSOR CROW.

Literature of the Age of Elizabeth. A Course

Preparatory to the Study of Shakespeare.

George Meredith.

ASSISTANT PROFESSOR TOLMAN.

Studies in English Poetry.

ASSISTANT PROFESSOR MCCLINTOCK.

Introduction to the Study of Literature.

English Romantic Poets from 1780 to 1830.

MR. TRIGGS.

Robert Browning.

MR. HOOPER.

American Prose Writers.

American Poets.

MR. OGDEN.

English Words.

History and Structure of English Speech.

Old English Life and Literature.

American Poets and Poetry.

MISS CHAPIN.

General Survey of American Literature.

Masterpieces of English Poetry.

XV. BIBLICAL LITERATURE IN ENGLISH.

HEAD PROFESSOR BURTON.

The Second Group of Paul's Letters.

PROFESSOR HIRSCH.

Religion in the Talmud.

The Jewish Sects.

Biblical Literature.

History of Judaism.

ASSOCIATE PROFESSOR PRICE.

What the Monuments tell us relative to the Old Testament.

The Forgotten Empire and the Old Testament.

ASSISTANT PROFESSOR THATCHER.

The Apostolic Church.

DR. KENT.

Hebrew Prophecy studied in the Light of the Minor Prophets.

Social Philosophy of the Hebrews.

Hebrew Wisdom Literature.

DR. RUBINKAM.

The Five Megilloth (Rolls).

MR. VOTAW.

Some Aspects of the Life of Christ.

Sources and Relations of the Four Gospels.

Jewish and Christian Writings parallel with, but excluded from, Our Bible.

MR. ROOT.

The Life of Christ.

XVII. ASTRONOMY.

DR. SEE.

General Astronomy.

XVIII. PHYSICS.

ASSISTANT PROFESSOR STRATTON.

Sound.

MR. BELDING.

Elements of Electricity and Magnetism.

MR. CORNISH.

Hydrostatics and Pneumatics.

XIX. CHEMISTRY.

MR. MORSE.

General Chemistry.

Chemistry of Every-day Life.

XX. GEOLOGY.

PROFESSOR SALISBURY.

Landscape Geology.

The Evolution of the North American Continent.

XXII. ZOÖLOGY.

MR. BOYER.
Zoölogy.

MICROSCOPY.

MR. MORSE.
The Microscope and its Uses.

ART.

MR. FRENCH.
Painting and Sculpture.

MR. TAFT.

Ancient Sculpture.
Contemporary French Art.
German Art of the Nineteenth Century.
Art at the Columbian Exposition.

MR. SCHREIBER.

History of Art.

RUSSIAN LITERATURE.

DR. HOURWICH.

Studies in Russian Literature.

LIST OF SYLLABI PUBLISHED DURING THE QUARTER.

- | | |
|--|---|
| 38. BUTLER— <i>Some Studies in American Literature.</i> | 46. SEE— <i>Astronomy.</i> |
| 39. MOULTON— <i>Ancient Tragedy for English Audiences.</i> | 47. SHEPARDSON— <i>Social Life in the American Colonies.</i> |
| 40. ZEUBLIN— <i>A Century of Social Reform.</i> | 48. KENT— <i>Hebrew Prophecy Studied in the Light of the Minor Prophets.</i> |
| 41. HUNTER— <i>Roman, Barbarian, and Christian.</i> | 49. WISHART— <i>Monks and Monasteries.</i> |
| 42. MORSE— <i>Elements of Chemistry.</i> | 50. TERRY— <i>Baron and King: The Evolution of a Typical European Monarchy.</i> |
| 43. TAFT— <i>Ancient Sculpture.</i> | |
| 44. TAFT— <i>Contemporary French Art.</i> | |
| 45. SMALL— <i>First Steps in Sociology.</i> | |

LIST OF CENTRES,

With Address of Secretaries.

CENTRES IN CHICAGO.

- | | |
|--|--|
| All Souls—Mrs. E. T. Leonard, 6600 Ellis av. | Memorial—Mrs. L. A. Crandall, 4443 Berkley av. |
| Association—Mr. C. D. Lowry, 725 Washington Boul. | Newberry Library—Mr. George L. Hunter, Hotel Barry. |
| Chicago Kindergarten Club—Miss Mary J. Miller, 2535 Prairie av. | Oakland—Mr. J. A. Burhans, 204 Oakwood Boul. |
| Chicago Trade and Labor Assembly—Mr. M. R. Grady, 478 Marshfield av. | Owen Scientific—Dr. C. E. Bently, 277 State st. |
| Church of the Redeemer—Hon. S. N. Brooks, 271 Warren av. | Plymouth—Dr. C. E. Boynton, Hotel Everet, 3617-23 Lake av. |
| Centenary—Mr. A. E. Trowbridge, 97 Laffin st. | People's Institute—Mr. W. G. Clarke, 54 Campbell Park. |
| Drexel—Mr. C. L. Clapp, 5431 Cottage Grove av. | Ravenswood—Mrs. Anna L. Pitkin. |
| Englewood—Rev. R. A. White, 6638 Stewart av. | Robey St.—Mr. Howard E. Hall, 250 Warren av. |
| Hull House—Miss Jane Addams, 335 S. Halsted st. | Sinai—Miss Rose G. Kauffman, 3313 Calumet av. |
| Hyde Park—Mr. C. H. Smith, 4608 Lake av. | St. James—Miss Minnie R. Cowan, 2975 Wabash av. |
| Irving Park—Mrs. Ernest Pitcher. | St. Paul's—Miss Sarah Hanson, Cottage Grove av. and 31st st. |
| Kenwood—Mr. Chas. Loughridge, 4728 Greenwood av. | Tracy—Mr. T. A. Dungan, 159 La Salle st. |
| K. A. M. Knowledge Seekers—Rev. I. S. Moses, 3131 Prairie av. | Union Park—Dr. G. F. Washburne, 551 Jackson Boul. |
| Lake View—Mr. Frank H. McCulloch, 1113 The Rookery. | University—Mr. O. J. Thatcher, The University of Chicago. |
| Millard Av.—Miss Jessie Stiles, 1804 W. 22d st. | Wicker Park—Miss A. A. Deering, 23 Ewing Place. |

CENTRES OUTSIDE OF CHICAGO.

- Aurora (Ill.)**—Mrs. Agnes C. Willey.
Austin (Ill.)—Mr. S. R. Smith.
Arlington Heights (Ill.)—Mr. W. A. Newton, Box 35.
Belvidere (Ill.)—Miss Emma Feakins.
Blue Island (Ill.)—Mr. W. A. Blodgett.
Canton (Ill.)—Supt. C. M. Bardwell.
Detroit (Mich.)—Mr. H. A. Ford, 393 Second av.
Decatur (Ill.)—Mr. James Lindsay.
Dubuque (Ia.)—Miss E. E. Gehrig, 1036 White st.
Elgin (Ill.)—Miss Hattie B. Kneeland.
Freeport (Ill.)—Mr. J. F. Shaible.
Flint (Mich.)—Miss Emily E. West.
Galesburg (Ill.)—Pres. John H. Finley.
Galena (Ill.)—Miss Kate A. McHugh.
Geneseo (Ill.)—Mrs. W. H. Foster.
Geneva (Ill.)—Mr. H. H. Robinson.
Glencoe (Ill.)—Mrs. R. D. Coy.
Highland Park (Ill.)—Maj. H. P. Davidson.
Indianapolis (Ind.)—Miss Amelia W. Platter, 275 N. Meridian st.
Joliet (Ill.)—Miss Eva B. Crowe.
Kalamazoo (Mich.)—Mr. S. O. Hartwell.
La Moille (Ill.)—Mr. G. R. Lewis.
Lemont (Ill.)—Mr. S. V. Robbins.
La Salle (Ill.)—Miss Emma Werley.
La Porte (Ind.)—Miss Bessie Hailman.
La Fayette (Ind.)—Miss Helen Hand.
Lincoln (Ill.)—Rev. J. S. Wrightnour.
Maywood (Ill.)—Mr. P. W. Skemp.
Minneapolis (Minn.)—Miss S. F. Watts.
Morgan Park (Ill.)—Mr. R. B. Thompson.
Monmouth (Ill.)—Miss Mollie Wallace.
Oak Park (Ill.)—Miss Virginia R. Dodge.
Palatine (Ill.)—Miss Vashti Lambert.
Peoria (Ill.)—Mr. W. A. Brubaker.
Pekin (Ill.)—Miss S. Grace Rider.
Princeton (Ill.)—Mr. R. A. Metcalf.
Quincy (Ill.)—Mr. E. A. Clarke.
Riverside (Ill.)—Mr. A. W. Barnum.
Rockford (Ill.)—Mrs. G. A. Sanford, 407 N. Main st.
Rochelle (Ill.)—Mr. C. F. Philbrook.
Rogers Park (Ill.)—Mr. Frank Brown.
Round Table (Kankakee, Ill.)—Mr. A. Swannell.
Saginaw (Mich.)—Prof. W. W. Warner, 414 S. Jefferson av. E. S.
South Bend (Ind.)—Mrs. E. G. Kettring.
South Evanston (Ill.)—Mrs. W. M. Green.
Springfield (Ill.)—Supt. J. H. Collins.
Sterling (Ill.)—Mr. Curtis Bates.
Shurtleff College (Upper Alton, Ill.)—Dr. A. A. Kendrick.
Terre Haute (Ind.) State Normal School—Mr. A. R. Charman.
Toledo (Ohio)—Miss Nellie Donat.
Washington (Ia.)—Rev. Arthur Fowler.
Wheaton (Ill.)—Mr. Geo. Brewster.

DISTRICT ASSOCIATIONS.

- Cook County Association**—Mr. George Leland Hunter, Hotel Barry, Hyde Park.
Northern Illinois Association—Miss Flora Guiteau, Freeport, Ill.

STATEMENT OF WORK OF QUARTER.

CENTRES IN CHICAGO.

CENTRE.	LECTURER.	SUBJECT.	Date of Beginning.	Average attendance at lecture.	Average class.	No. of Weekly Papers.	No. passed Examination.
Association	F. L. Morse	General Chemistry	Nov. 11	100	30	4	3
Drexel	Lorado Taft	Contemporary French Art	" 13	350	10	4	2
Hyde Park	T. J. Lawrence	English Parties and American Independence	" 16	89	55	4	2
Kenwood	Chas. Zeublin	English Fiction and Social Reform	" 13	175	150	6	2
Kindergarten	Frederick Starr	Some First Steps in Human Progress	" 11	60	00	..	..
Lake View	A. W. Small	First Steps in Sociology	" 7	125	10	..	..
Newberry Library	Nathaniel Butler, Jr.	American Literature	" 10	210	25	18	13
"	W. M. R. French	Painting and Sculpture	" 26	75	40	..	..
"	Geo. L. Hunter	Roman, Barbarian and Christian	Nov. 13	75	28	4	3
Oakland	H. B. Grose	Character Studies in Modern History	" 21	190	95	..	..
St. James	Nathaniel Butler, Jr.	American Literature	" 7	275	200	22	36
St. Paul's	Lorado Taft	Ancient Sculpture	" 16	100	20	2	1
Union Park	T. J. Lawrence	Some Great English Rulers and Statesmen	" 14	120	50	4	2
Wicker Park	Lorado Taft	German Art of the Nineteenth Century	Oct. 3	60	..	..	..

CENTRES OUTSIDE OF CHICAGO.

CENTRE.	LECTURER.	SUBJECT.	Date of Beginning.	Average attendance at lecture.	Average class.	No. of Weekly Papers.	No. passed Examination.
Belvidere	Chas. F. Kent	Hebrew Prophecy	Dec. 6	175	80	5	..
Flint, Mich	F. W. Shepardson	Social Life in the American Colonies	Nov. 22	250	..	..	..
Galesburg	H. P. Judson	Period of Dominant Internal Development	Oct. 3	200	50	..	..
Geneseo	Frederick Starr	Some First Steps in Human Progress	Nov. 3	200	150	4	2
Iring Park	E. W. Bemis	Money	Nov. 6	75	50	..	..
La Fayette Ind.	Nathaniel Butler, Jr.	American Literature	Oct. 14	125	100	5	4
Maywood	A. W. Wishart	Monks and Monasteries	Dec. 15	50	..	..	..
Monmouth	Nathaniel Butler, Jr.	English Literature	Dec. 16	125	120	4	..
Morgan Park	R. D. Salisbury	Landscape Geology	Nov. 10	100	30	15	13
Oak Park	W. M. R. French	Painting and Sculpture	Oct. 27	75	3	..	..
Palatine	Frederick Starr	Some First Steps in Human Progress	Nov. 3	175	150	1	1
Pekin	Chas. Zeublin	English Fiction and Social Reform	" 7	90	85	3	2
Peoria	"	The Industrial Revolution	" 7	90	85	2	..
Princeton	Frederick Starr	Some First Steps in Human Progress	" 10	275	180	..	..
Quincy	Chas. Zeublin	English Fiction and Social Reform	" 10	180	180	1	..
Riverside	"	A Century of Social Reform	Dec. 9	75	75	..	..
Rogers Park	R. D. Salisbury	Landscape Geology	Nov. 25	90	75	..	..
Saginaw, Mich	F. W. Shepardson	Social Life in the American Colonies	Dec. 19	250	..	..	..
Springfield	Chas. Zeublin	English Fiction and Social Reform	Nov. 9	175	150	6	1
Sterling	Nathaniel Butler, Jr.	American Literature	" 15	225	150	4	..
Wheaton	T. J. J. See	General Astronomy	" 20	125	85	..	..

THE CLASS-WORK DEPARTMENT.

During the Quarter a large number of courses was offered, but because of many hindrances only one class, in Latin, was actually organized, as follows :

Place, Athenæum.
 Began, November 4.
 Ends, January 27.
 Subject, Cicero's Tusculan Disputations.

Instructor, Dr. Miller.
 Number of Students, 15.
 Number of classes, 1. Number of Matriculations, 5.
 No examinations were held during the quarter.

CORRESPONDENCE TEACHING DEPARTMENT.

Number of courses offered, 83.

ACADEMY AND ACADEMIC COURSES.				UNIVERSITY COLLEGES.				
NAME OF COURSE.	INSTRUCTOR AND READER.	NO. OF STUDENTS.	NO. OF RECITATION PAPERS DURING QUARTER.	NAME OF COURSE.	INSTRUCTOR.	READER.	NO. OF STUDENTS.	NO. OF RECITATION PAPERS DURING QUARTER.
Latin.	Miss Pellett.	12	63	Psychology.	Asst. Prof. Strong.	Mr. Sisson.	7	16
Greek.	Mr. Bronson.	4	35	Logic.	Asst Prof. Tufts	Asst Prof. Tufts.	1	1
Mathematics.	Mr. Hoover.	11	38	Bib.Lit.in Eng.	—————	Mr. Woodruff	324	110
Pol. Economy.	Dr. West.	2	6	Semitic Languages.	—————	Dr. Crandall.	203	300
Rhetoric.	Mr. Lovett.	3	8	Arabic.	Dr. Sanders.	Dr. Sanders.	2	5
Eng. Literature.	Asst. Prof. McClintock.	16	60	N. T. Greek.	—————	Mr. Votaw.	68	102
Tennyson and Browning.	Mr. Triggs.	2	2	GRADUATE AND DIVINITY COURSES.				
Hist. of the Middle ages.	Asst Prof. Thatcher.	4	15	SUBJECT.	INSTRUCTOR.	NUMBER OF STUDENTS.		
Hist. of the U. S.	Dr. Shepardson.	2	47	Philosophy.	Asst. Prof. Tufts.	2		
				Political Science	Prof. Judson.	5		
				American History.	Dr. Shepardson.	1		
				Social Science and Anthropology.	Assoc. Prof. Henderson.	3		
				Geology.	Prof. Chamberlin.	1		

LIBRARY DEPARTMENT.

ZELLA ALLEN DIXSON, *Secretary.*

ADDITIONS TO THE UNIVERSITY EXTENSION LIBRARY.

- II. POLITICAL ECONOMY.
Edward W. Bemis, Questions of Monopoly and Taxation. 1 Library of 30 vols. Winter Quarter.
- IV. HISTORY.
Benjamin S. Terry, History. 1 Library of 100 vols. Winter Quarter.
Francis W. Shepardson, Social Life in American Colonies. 2 Libraries of 62 vols. each.
George Leland Hunter, Roman, Barbarian, and Christian. 1 Library of 71 vols.
Alfred W. Wishart, Monks and Monasteries. 1 Library of 30 vols.
- V. SOCIAL SCIENCE.
Albion W. Small, First Steps in Sociology. 2 Libraries of 50 vols. each.
Charles Zeublin, Century of Social Reform. 1 Library of 15 vols.
Charles Zeublin, Social Reform in Fiction. 2 Libraries of 50 vols. each.
- XIV. ENGLISH.
Nathaniel Butler, Jr., American Literature. 3 Libraries of 89 vols.
- XV. BIBLICAL LITERATURE IN ENGLISH.
Charles F. Kent, Hebrew Prophecy. 2 Libraries of 50 vols. Winter Quarter.
- XVII. ASTRONOMY.
T. J. J. See, General Astronomy. 1 Library of 6 vols.
- XIX. CHEMISTRY.
Frank L. Morse, General Chemistry. 1 Library of 17 vols.
- XX. GEOLOGY.
Rollin D. Salisbury, Landscape Geology. 1 Library of 26 vols.
- ART.
W. M. R. French, Painting and Sculpture. 1 Library of 21 vols.
Lorado Taft, Contemporary French Art. 1 Library of 6 vols.

LIBRARIES NOW READY FOR USE.

II. POLITICAL ECONOMY.

- Edward W. Bemis, Questions of Labor and Social Reform.* 2 Libraries of 50 vols.
Edward W. Bemis, Money. 1 Library of 32 vols. and 75 pamphlets.
Edward W. Bemis, Questions of Monopoly and Taxation. 1 Library of 30 vols.

IV. HISTORY.

- Harry Pratt Judson, American Political History.* 2 Libraries of 37 vols.
Benjamin S. Terry, History. 1 Library of 100 vols.
Oliver J. Thatcher, History of the Middle Ages. 2 Libraries of 46 vols.
Howard B. Gross, Political Development of European Nations Since 1782. 1 Library.
Francis W. Shepardson, American Colonial History. 2 Libraries of 15 vols.
Francis W. Shepardson, Social Life in American Colonies. 1 Library of 62 vols.
George Leland Hunter, Roman, Barbarian, and Christian. 1 Library of 71 vols.

V. SOCIAL SCIENCE AND ANTHROPOLOGY.

- Albion W. Small, First Steps in Sociology.* 2 Libraries of 30 vols.
Charles R. Henderson, Charities and Corrections. 1 Library of 34 vols.
Frederick Starr, Some First Steps in Human Progress. 4 Libraries of 58 vols.

ART.

- W. M. R. French, Painting and Sculpture.* 1 Library of 21 vols.

- Lorado Taft, Contemporary French Art.* 1 Library of 6 vols.
Charles Zeublin, A Century of Social Reform. 2 Libraries of 36 vols.
Charles Zeublin, Social Reform in Fiction. 3 Libraries of 61 vols.

XIV. ENGLISH.

- Nathaniel Butler, Jr., English Literature.* 2 Libraries of 50 vols.
Nathaniel Butler, Jr., American Literature. 5 Libraries of 89 vols.

XV. BIBLICAL LITERATURE IN ENGLISH.

- Ira M. Price, Monumental Witnesses.* 1 Library of 15 vols.
Charles T. Kent, Hebrew Prophecy. 2 Libraries of 50 vols.

XVII. ASTRONOMY.

- T. J. J. See, General Astronomy.* 1 Library of 6 vols.

XIX. CHEMISTRY.

- Frank L. Morse, General Chemistry.* 1 Library of 17 vols.

XX. GEOLOGY.

- Rollin D. Salisbury, Landscape Geology.* 2 Libraries of 53 vols.

LIBRARY STATISTICS.

Total number of volumes in the University Extension Library	- - - - -	940
Number of volumes in use during the last quarter	- - - - -	750
Number of volumes sold	- - - - -	70

THE EDITORIAL DEPARTMENT.

THE UNIVERSITY EXTENSION WORLD is now in its third volume. It is published monthly and contains, beside the official statements of the University Extension Division, a varied range of matter which is of

interest to University Extension organizers and others who are identified with the University Extension work.

The University Library and Libraries.

During the Autumn Quarter there have been added to the Library of the University a total number of 2885 new books from the following sources:

Books added by purchase, 2019 vols.

Distributed as follows:

General Library, 110 vols.; Philosophy, 43 vols.; Political Economy, 125 vols.; Social Science, 80 vols.; Anthropology, 12 vols.; Comparative Religion, 1 vol.; Semitic, 3 vols.; New Testament, 27 vols.; Philology, 94 vols.; Greek, 40 vols.; Latin, 132 vols.; Romance, 690 vols.; German, 24 vols.; English, 126 vols.; Mathematics, 4 vols.; Astronomy, 4 vols.; Physics, 16 vols.; Chemistry, 5 vols.; Geology, 20 vols.; Biology, 375 vols.; Divinity, 68 vols.

Books added by gift, 777 vols.

Distributed as follows:

General Library, 330 vols.; Political Economy, 168 vols.; Social Science, 5 vols.; Anthropology, 3

vols.; English 25 vols.; Geology, 226 vols.; Divinity, 20 vols.

Books added by exchange for University Publications, 89 vols.

Distributed as follows:

Journal of Political Economy, 10 vols.; Journal of Geology, 6 vols.; University Extension World, 39 vols.; Biblical World, 34 vols.

Library Correspondence.

Total number of post-office letters sent from the Librarian's office, 748.

Letters soliciting books for review, exchange with University Publications and general business, as follows: Foreign, 110; United States, 441; Postals, 46; Gift Notices, 197 Postals; Fines, 61 Postals.

Money collected on Library fines for the Quarter, \$15.40.

The University Press.

THE PUBLISHING DEPARTMENT.

PERIODICALS ISSUED FROM THE UNIVERSITY PRESS.

OCTOBER-DECEMBER, 1893.

THE JOURNAL OF POLITICAL ECONOMY.

Quarterly. 8vo. \$3.00 per volume. \$3.50 for foreign countries. Single numbers, 75 cents.

Number issued, 1,000; number of subscribers, 335; additions to subscription list during the quarter, 54.

Vol. II, No. 1, December, 1893. pp. 1-178.

Italian Banking Crisis, by Richard Dalla Volta.—*German Labor Colonies and the Unemployed*, by James Mavor.—*Protective Purpose of the Tariff Act of 1789*, by Wm. Hill.—*Walker's Shares in Distribution*, by Fred'k Chas. Hicks.—NOTES.—*Miscellanies: Wages and Prices in England*.—BOOK REVIEWS.—APPENDICES.—I. *Reaction in Favor of the Classical Political Economy*, by J. S. Nicholson.—II. *Monetary and Financial Chronicle, 1892-93*, by Arthur I. Street.

THE JOURNAL OF GEOLOGY.

Eight numbers yearly. 8vo. \$3.00 per volume. \$3.50 for foreign countries. Single numbers, 50 cents.

Number issued, 600; number of subscribers, 216; additions to subscription list during the quarter, 39.

Vol. I, No. 7, October-November. 639-751.

Geologic Time as Indicated by the Sedimentary Rocks of North America, by Chas. D. Walcott.—*On the Origin of the Pennsylvania Anthracite*, by Jno. J. Stevenson.—*The Basic Massive Rocks of the Lake Superior Region*, by W. S. Bayley.—*On the Geological Structure of the Mount Washington Mass of the Taconic Range. Plates III, IV*, by Wm. H. Hobbs.—EDITORIALS.—REVIEWS.—*Correlation Papers. The Newark System: ISRAEL COOK RUSSELL*, by Wm. M. Davis.—*Text-Book of Comparative Geology: E. KAYSER, PH.D.*, by Rollin D. Salisbury.—*Iowa Geological Survey vol. I. First Annual Report*, SAMUEL CALVIN, State Geologist, by C. H. Gordon.

Vol. I, No. 8, November-December, 1893. pp. 753-871.

The Supposed Glaciation of Brazil, by John C. Branner.—*Causes of Magmatic Differentiation*, by Helge Bäckström.—*The Geological Structure of the Housatonic Valley Lying East of Mount Washington. Plates V, VI, VII*, by Wm. H. Hobbs.—*The Newtonville Sand-Plain*, by F. P. Gulliver.—*The Structures, Origin, and Nomenclature of the Acid Volcanic Rocks of South Mountain*, by F. Bascom.—STUDIES FOR STUDENTS: *Genetic Relationships among Igneous Rocks*, by Joseph P. Iddings.—EDITORIALS.—REVIEWS: *Recent Contributions to the Subject of Dynamometamorphism: A. HEIM, C. SCHMIDT, L. MILCH, M. P. TERMIER*, by Geo. H. WILLIAMS.—*Text-Book of Geology: SIR ARCHIBALD GEIKIE*, by R. D. Salisbury.—*Bodengestaltende Wirkungen der Eiszeit: DR. AUG. BÖHM*, by Wm. M. Davis.—ANALYTICAL ABSTRACTS OF CURRENT LITERATURE.—*Conditions*

of Appalachian Faulting, Bailey Willis and C. W. Hayes, 861.—*Ueber Geröll-Thonschiefer glacialen Ursprungs in Kulm des Frankenwaldes*, by Ernest Kalkowski.—ACKNOWLEDGMENTS.

THE BIBLICAL WORLD.

Monthly. 8vo. \$2.00 per volume. Foreign countries \$2.50. Single Copies, 20 cents.

Number issued, 3,000; number of subscribers, 2,180; additions to subscription list during the quarter, 106.

Vol. II (New Series), No. 4, October, 1893. pp. 241-320.

EDITORIALS.—*A Study of the Form and Contents of the Song of Songs*, by Prof. A. S. Carrier.—*An Ancient Letter Somewhat Modernized in Style*, by Ernest D. Burton.—*The Self Consciousness of Jesus, I*, by T. H. Root.—*On the Date of the Crucifixion, IV*, The Rev. Arthur Wright.—THE AMERICAN INSTITUTE OF SACRED LITERATURE.—EXPLORATION AND DISCOVERY: *Some Egyptian Names in Genesis; A New Inscription of the Oldest Period, etc.*, by James Henry Breasted.—SYNOPSIS OF IMPORTANT ARTICLES.—NOTES AND OPINIONS.—WORK AND WORKERS.—BOOK REVIEWS.—CURRENT LITERATURE.

Vol. II (New Series), No. 5, November, 1893. pp. 321-400.

EDITORIAL.—*The Apostle Paul's Mysticism*, by Prof. Edwd. Y. Hincks.—*Biblical Criticism in Some of its Theological and Philosophical Relations, I*, by Rev. James Ten Broeke, Ph.D.—*The Historical Character of the Narratives of the Patriarchs, I*, by Prof. Lewis B. Paton.—*The Self-Consciousness of Jesus, II*, by T. H. Root.—*Schultz's Old Testament Theology*, by Rev. W. P. McKee.—THE AMERICAN INSTITUTE OF SACRED LITERATURE.—EXPLORATION AND DISCOVERY: *Some Notes from Palestine*, by Dean A. Walker.—SYNOPSIS OF IMPORTANT ARTICLES.—NOTES AND OPINIONS.—WORK AND WORKERS.—BOOK REVIEWS.—CURRENT LITERATURE.

Vol. II (New Series), No. 6, December, 1893. pp. 401-480.

EDITORIAL.—*Is Genesis 21:9-21, a Duplicate of Genesis 16:5-14*, by Prof. Edwin Cone Bissell, D.D.—*The Self Consciousness of Jesus, III*, by T. H. Root.—*The Historical Character of the Narratives of the Patriarchs, II*, by Prof. Lewis B. Paton.—*Realism in Psalm, 23:1-3*, by Dean A. Walker.—*Paul's Visit to Jerusalem*, by Prof. W. J. Beecher.—*Biblical Criticism in Some of its Theological and Philosophical Relations, II*, by Rev. Jas. Ten Broeke, Ph.D.—THE AMERICAN INSTITUTE OF SACRED LITERATURE.—EXPLORATION AND DISCOVERY: *Zaphenath Paneah and the Date of Genesis*, by Rev. C. M. Coburn, Ph.D.—SYNOPSIS OF IMPORTANT ARTICLES.—NOTES AND OPINIONS.—WORK AND WORKERS.—COMPARATIVE RELIGION NOTES.—BOOK REVIEWS.—CURRENT LITERATURE.

THE UNIVERSITY EXTENSION WORLD.

Monthly. 8vo. \$1.00 per year, postage prepaid. Single numbers, 10 cents.

Number issued, 1,000; number of subscribers, 88; additions to subscription list during the quarter, 14.

Vol. II, No. 4, October, 1893. pp. 135-167.

Frontispiece, Thos. J. Lawrence.—EDITORIAL.—*The Lecture-Study and Its Functions*, by Thos. J. Lawrence.—*The Universities and the Workingmen*, by Chas. Zeublin.—*Bible Study in the West*, by Chas. F. Kent.—*University Extension in Belgium*, by Emil Maxweiler.—*A Student's Notes*, by Mary H. Welch.—SAMPLE TICKETS.—LONDON CORRESPONDENCE.—THE WORK AND THE WORKERS.—OXFORD SUMMER MEETING SCHOLARSHIPS.—UNIVERSITY EXTENSION CLASS WORK AT CHICAGO ATHENÆUM.—LOCAL CENTRES AND SECRETARIES IN THE NORTH-WEST.

Vol. II, No. 5, November, 1893. pp. 169-201.

Frontispiece, Edward W. Bemis.—EDITORIAL.—*Reminiscences of the Earliest University Extension in the United States*, by Edward W. Bemis.—*Fundamental Principles of University Extension. IV, Right Methods of Study*, by Jessie D. Montgomery.—*The Paper Work*, by Lyman P. Powell.—*The Fourth Summer Meeting at Cambridge*, by W. H. Mace.—*University Extension in Iowa*, by Jas. A. Rohback.—LONDON CORRESPONDENCE.—THE WORK AND THE WORKERS.—BOOK NOTES.—LOCAL CENTRES AND SECRETARIES IN THE NORTH-WEST.

Vol. II, No. 6, December, 1893. pp. 203-243.

Frontispiece, Oliver J. Thatcher.—EDITORIAL.—*Inter-Collegiate University Extension, I*, by F. W. Shepardson. II, by N. Butler. III, by Charles Zeublin.—*The Urania Gesellschaft of Berlin*, by Oliver J. Thatcher.—*Fundamental Principles of University Extension, V, Emulation and Association*, by Jessie D. Montgomery.—*Roman Catholics and University Extension in*

the United States, by Frances Etten.—*The Ideal Local Committee*, by Elizabeth A. Lawrence.—*How to Advertise a Local Centre*, by Geo. L. Hunter.—NOTES FROM STUDENTS.—A SAMPLE LOCAL CIRCULAR.—THE WORK AND THE WORKERS.—BOOK NOTES.—LOCAL CENTRES AND SECRETARIES IN THE NORTH-WEST.

BOOKS AND PAMPHLETS PUBLISHED.

BURTON: *Moods and Tenses of New Testament Greek*. 8vo, pp. xxii-215, price \$1.50. 1,000 copies issued.

SYLLABI OF UNIVERSITY EXTENSION LECTURES PUBLISHED DURING THE QUARTER.

	NO.	ISSUED.	PAGES.	CTS.
1 BUTLER: <i>English Literature</i>	1,000	20	10	
23 GROSE: <i>Character Studies in Modern History</i>	500	12	10	
38 BUTLER: <i>Some Studies in American Literature</i>	1,900	16	10	
39 MOULTON: <i>Ancient Tragedy for English Audiences</i>	2,000	36	15	
40 ZEUBLIN: <i>A Century of Social Reform</i>	1,000	20	20	
41 HUNTER: <i>Roman, Barbarian and Christian</i>	1,000	14	10	
42 MORSE: <i>Elements of Chemistry</i>	1,000	16	20	
43 TAFT: <i>Ancient Sculpture</i>	500	15	10	
44 TAFT: <i>Contemporary French Art</i>	1,000	32	15	
45 SMALL: <i>Social Science</i>	500	20	10	
46 SEE: <i>Astronomy</i>	500	12	10	
47 SHEPARDSON: <i>Social Life in American Colonies</i>	1,000	16	10	
48 KENT: <i>Hebrew Prophecy, Studied in the Light of the Minor Prophets</i>	400	18	10	
49 WISHART: <i>Monks and Monasteries</i>	250	16	10	
50 TERRY: <i>Baron and King, the Evolution of a Typical European Monarchy</i>	350	27	15	

THE BOOK, PURCHASE, AND SALE DEPARTMENT.

1. Books purchased for the University, classified according to departments :

Philosophy, \$27.60; Political Economy, \$255.51; History, \$28.55; Social Science, \$6.93; Anthropology, \$12.20; Semitic, \$5.43; Sinai-Semite Fund, \$20.50; New Testament, \$101.33; Sanskrit and Comparative Philology, \$34.01; Greek, \$480.77; Latin, \$134.50; Romance, \$2.32; German, \$49.58; English, \$200.99; Mathematics, \$4.36; Physics, \$3.85; Chemistry, \$25.55; Geology, \$1.45; Zoology, \$66.16; Divinity, \$6.00; General Library, \$21.20; Univ. Ext. Loan Library, \$507.26. Total, \$1,996.05.

2. Books purchased for departments :

English, \$303.35; German, \$752.82; French, \$53.28; American, \$886.60. Total, \$1,996.05.

3. Apparatus purchased, classified according to departments :

Astronomy, \$4.20; Physics, \$2,829.38; Chemistry, \$1,741.65; Geology, \$832.53; Zoology, \$212.98; Morgan Park Acad., \$175.61. Total, \$5,796.35.

4. Supplies purchased for the University, classified according to a) Departments :

Latin, \$1.05; English, \$2.07; Physics, \$39.18; Chemistry, \$52.87; Zoology, \$54.46; Divinity, \$1.15; General Library, \$13.39; Univ. Extension, \$26.98; Univ. Ext. Loan Library, \$9.22.

b) Offices :

President's, \$11.45; Dean's, \$20.24; Secretary's, \$14.93; Registrar's, \$22.17; Examiner's, \$14.34; Recorder's, \$2.70; University Extension, \$29.86. Total, \$316.06.

5. Books and Stationery purchased for the Book-store, \$5,147.08.

6. Books and Stationery sold through the Book-store : Cash, \$4,159.54; charge, \$955.66. Total, \$5,115.20.

7. Expenses for quarter for salaries of managers, stenographers and clerks, \$1,013.08.

The University Affiliations:

REPORT FOR AUTUMN QUARTER, 1893.

DES MOINES COLLEGE.

(DES MOINES, IOWA)

HERBERT LEE STETSON, *President.*

<i>List of Instructors, with Number and Character of Courses:</i>	<i>Departments :</i>	<i>STUDENTS.</i>
	<i>No. OF COURSES.</i>	
Blakeslee, T. M. 1 DM. (Trigonometry); 1 M. (Analytic Geometry); 1 DM. (Plane Geometry); 1 DM. (Economics).	Philosophy : 3 (1 DM.; 1 M.);	7
Goodell, F. E. 1 DMM. (General Chemistry); 1 M. (Qualitative Analysis); 1 DM. (General Physics); 1 DM. (Experimental Physics).	Economics : 1 (1 DM.);	4
Goodrich, H. L. 1 DM. (English Grammar); 1 DM. (Elementary Rhetoric); 1 DM. (weekly rhetorical).	History : 4 (1 DM.; 1 MM.);	42
Harris, G. E. 1 M. (Xenophon); 1 MM. (Herodotus); 1 MM. (Xenophon); 1 M. (Iliad).	Greek : 5 (2 MM.; 3 M.);	28
Price, A. B. 1 MM. (Virgil); 1 M. (Cicero, De Senectute); 1 M. (Horace); 1 M. (Virgil); 2 DM. (Review Latin).	Latin : 6 (2 MM.; 3 M.; 2 DM.);	76
Schoemaker, D. M. 3 DM. (German).	French : 2 (1 DM.);	5
Stephenson, G. H. 1 DM. (American Literature); 1 DM. (French).	German : 2 (3 DM.);	26
Stephenson, T. P. 1 DM. (Rhetoric); 1 M. (Logic); 1 DM. (Biblical Literature); 1 M. (Lysias); 1 DM. (weekly rhetorical).	English : 6 (6 DM.);	44
Stetson, H. L. 1 DM. (History); 1 DM. (Psychology); 1 MM. (History).	Math.: 6 (2 MM.; 2 DM.; 2 M.)	56
Wheeler, F. E. 1 MM. (Latin); 1 MM. (Algebra); 1 MM. (Arithmetic); 1 M. (Arithmetic).	Chemistry : 3 (1 DMM.; 1 M.)	10
	Physics : 2 (2 DM.);	14

States and countries from which students have come:
Illinois; Iowa; Kansas; Nebraska; Prince Edward's Island.

Number of Students:
Enrolled during Autumn Quarter, 144.
Discontinuing at end of Autumn Quarter, 21.
Entering at beginning of Winter Quarter, 10.
Attendance for current Quarter, 134.

Distribution of Students leaving :
Permanently, 5. Temporarily, 16.
Changing school, 0.

Degrees conferred, 0.

MORGAN PARK ACADEMY.

(MORGAN PARK)

GEORGE NOBLE CARMAN, *Dean.*

<i>List of Instructors, with Number and Character of Courses :</i>	<i>Bronson, F. M.</i>
Burgess, I. B. 1 MM. (Beg. Latin); 1 DM. (Virgil); 1 M. (Cæsar); 1 DM. (Cicero).	1 MM. (Adv. Greek); 1 MM. (Beg. Greek); 1 MM. (Greek History).
Robertson, Miss L. 2 MM. (Beg. German); 1 MM. (Adv. German); 1 M. (Adv. German).	Caldwell, E. L. 1 MM. (Geometry); 1 M. (Adv. Algebra); 1 MM. (Beg. Algebra).
Cornish, R. H. 1 DM. (Physics); 1 DM. (Geology).	Chase, W. J. 1 MM. (English); 1 M. (English); 1 M. (Arithmetic); 1 MM. (Arithmetic).
	Carman, G. N. 1 DM. (English); 1 MM. (Rhetoric).

Departments :

NO. OF COURSES.	STUDENTS.
History : 2 (1 MM.);	33
Greek : 4 (2 MM.);	8
Latin : 7 (1 MM.; 2 DM.; 1 M.);	70
German : 7 (3 MM.; 1 M.);	42
English : 7 (2 MM.; 1 DM.);	64
Mathematics : 8 (3 MM.; 2 M.);	29
Science : 4 (2 DM.);	30

States and Countries from which Students Have come :

Alabama, 2; Arkansas, 1; California, 2; Illinois, 65; Indiana, 2; Iowa, 5; Michigan, 4;

Mississippi, 1; Missouri, 5; Montana, 2; Nebraska, 3; New York, 2; Ohio, 3; Pennsylvania, 1; South Dakota, 1; Texas, 2; Virginia, 1; Washington, 1; Wisconsin, 7. Hawaii, 1.

Number of Students :

Enrolled Autumn Quarter, 103.
Discontinuing at end of Autumn Quarter, 8.
Entering at beginning of Winter Quarter, 8.
Attendance for Current Quarter, 103.

Distribution of Students leaving :

Temporarily, 3. Permanently, 4.
Changing School, 0. Entering College, 1.

THE HARVARD SCHOOL.

(CHICAGO.)

JOHN J. SCHOBINGER, *Principal.**List of Instructors, with Number and Character of Courses :*

Emery, S. 2 M. (English); 1 DM. (English History); 2 M. (Cæsar); 2 M. (Virgil); 3 DM. (Mathematics: Algebra, S. Geom., and Pl. Geom.)

Ford, W. H. 2 M. (English); 1 MM. (Beginners' Greek); 1 DMM. (Beg. Latin); 1 DM. (Virgil); 1 MM. (Algebra).

Grant, J. C. 1 DMM. (Beg. Latin); 1 DMM. (Cæsar).

Heinrichs, Miss C. L. 2 MM. (Beg. German); twice 1 DM. (Adv. German).

Leland, S. 1 DM. (English); 1 DM. (Xenophon's Anabasis); 1 DM. (Homer); 1 DM. (Greek History); 1 D.M. (Cæsar); 1 DM. (Cicero).

Liebard, L. 2 MM. and 1 DM. (Beg. French); 1 DM. (2d year French); 1 DM. (3d year French).

Lyon, E. P. 2 DM. (English); 1 M. Unit. States History); 2 DM. (Arithmetic); 2 DM. (Element. Science).

Schobinger, J. J. 1 DM. (Pl. Geom.); 1 DM. (Algebra); 1 DM. (Physics).

Departments :

NO. OF COURSES.	STUDENTS.
History : 5 (2 DM.; 1 M.);	47
Greek : 5 (1 MM.; 2 DM.);	35
Latin : 16 (4 M.; 6 DM.);	90
French : 10 (2 MM.; 3 DM.);	16
German : 6 (2 MM.; 2 DM.);	13
English : 10 (4 M.; 3 DM.);	100
Math.: 15 (7 DM.; 1 MM.);	100
Science : 6 (3 DM.);	36

States from which Students have come :

Illinois, 98; Ohio, 1; Indiana, 1.

Number of Students :

Enrolled Autumn Quarter, 100.
Discontinuing at the end of Autumn Quarter, 2.
Entering at beginning of Winter Quarter, 3.
Attendance for current Quarter, 101.

Distribution of Students leaving :

Permanently, 0. Temporarily, 1.
Changing school, 1. Entering college, 0.

KENWOOD INSTITUTE.

(CHICAGO)

JOHN C. GRANT, *Principal*.

List of Instructors, with Number and Character of Courses:

Butts, A. E. 1 DM. (History).
 Clement, E. W. 1 DM. and 1 M. (English); 1 MM. and 1 M. (Xenophon's Anabasis); 1 MM. and 1 M. (Virgil).
 Faulkner, E. 1 MM. and 1 M. (Beg. Greek); 1 MM. (Beg. Latin); 2 M.; 1 MM. and 1 M. (Cæsar).
 Schmitt, E. 3 DM. (French); 1 DM. and 1 M. (German).
 Sherwood, T. History: 1 DM. (General); 1 M. (Engl.); 1 M. and 1 DM. (Unit. States).
 Stone. 2 DM. (Arithm.); 1 DM. (Elem. Physics).
 Wedgewood, M. 1 DM. (English); 1 DM. (Algebra); 1 M. and 1 MM. (Geometry).

Departments:

NO. OF COURSES.	STUDENTS.
History : 7 (4 DM.);	36
Greek : 4 (3 DM.);	5
Latin : 7 (5 DM.);	29
French : 6 (3 DM.);	26
German : 4 (½ DM.);	9
English : 5 (2½ DM.);	17
Mathem. : 8 (4½ DM.);	39
Science : 2 (1 DM.);	7

States represented :

California, 2; Illinois, 51; Indiana, 2; Iowa, 2; North Carolina, 1; New York, 2; Texas, 1.

Number of Students:

Enrolled Autumn Quarter, 61.
 Discontinuing at beginning of Winter Quarter, 2.
 Entering at beginning of Winter Quarter, 3.
 Attendance for current Quarter, 64.

Distribution of Students leaving :

Permanently, 0. Temporarily, 1.
 Changing school, 0. Entering college, 0.

THE CHICAGO ACADEMY.

(CHICAGO)

CHARLES W. MANN, *Principal*.

Departments:

NO. OF COURSES.	STUDENTS.
History : 2 (1 DM.; 1 M.);	16
Latin : 3 (2 DM.; 1 MM.; 1 M.);	14
French : 2 (2 DM.; 1 MM.);	14
German : (1 DM.);	3
English : (1 DM.);	7
Mathematics : (1 DM.);	4 (7)
Chemistry : (1 DM.);	6
INTRODUCTORY YEAR.	
English : (1 DM.);	6
Mathematics : (2 MM.);	6

Home Address of Students : Chicago, 44

Illinois, outside Chicago, 1—45

Number of Students:

Enrolled Autumn Quarter, 43.
 Discontinuing at the end of Autumn Quarter, 1.
 Entering at beginning of Winter Quarter, 3.
 Attendance for current Quarter, 45.

List of Instructors, with Number of Courses:

Aeshleman, L. 1 MM.; 3 DM.
 Jaquish, B. M. 2 MM.; 1 DM.
 Mann, C. W. 1 M.; 2 DM.
 Orr, C. A. 1 MM.; 2 DM.
 Rogers, A. K. 1 DM.; 1 M.

PART II.—ANNOUNCEMENTS.

The University in General.

THE SPRING CONVOCATION AND OTHER MEETINGS.

ANNOUNCEMENTS FOR THE FIRST WEEK OF THE SPRING QUARTER.

- April 1, Sunday, 4:00 P.M., Vesper Services.
Theatre, Kent Chemical Laboratory.
The Choir of the First Baptist Church assisting.
- 7:30 P.M. The Convocation Sermon.
Theatre, Kent Chemical Laboratory.
THE REVEREND WM. M. LAWRENCE, D.D.
- April 2, Monday, Matriculation of Incoming Students,
8:30 A.M. to 12:30 P.M.
Informal meeting of Incoming Students with
the University Council, 4:00 to 6:00 P.M.
Chapel, Cobb Lecture Hall.
- The Spring University Convocation, 8:00 to
10:00 P.M.
- The President's Reception, 10:00 P.M.
- April 3, Tuesday, Classes begin the work of the Spring
Quarter.

SCHOOL AND COLLEGE CONFERENCE

AT THE UNIVERSITY OF CHICAGO.

SATURDAY, APRIL 28, 1894.

The fourth Semi-Annual Conference of University and Preparatory School Teachers will be held at the University, *Chapel, Cobb Lecture Hall*, on Saturday, April 28, 1894, beginning at 10:00 A.M. The Programme will be announced later.

SPRING MEETING OF THE UNIVERSITY UNION

Will be held on Friday, May 11, at 8:00 P.M., in *Theatre, Kent Chemical Laboratory.* At this meeting three of the following five competing Clubs will present papers: The Biological, Church History, Social Science, Latin, and English Clubs.

PRIZES AND FELLOWSHIPS.

THE HIRSCH SEMITIC PRIZE.

The *Hirsch Semitic Prize* of \$150.00 is awarded each year for the best paper prepared by a student of the University upon a Semitic subject. The next papers are to be submitted on January 1, 1895. The subjects on which competitors may write will be announced later.

THE BASTIN PRIZE.

The *Ellen B. Bastin Prize* of not less than \$50.00, offered by the Philosophy and Science department of the Chicago Women's Club, is to be given to the woman that presents the best paper embodying the results of her own original research in any of the Natural Sciences; Papers competing for this prize, to be awarded at the Summer Convocation, must be handed in before May 15, 1894.

UNIVERSITY FELLOWSHIPS.

University Fellowships are assigned in accordance with the following terms and conditions:

1. *Twenty Fellowships* are assigned, each yielding the sum of \$520 annually, University fees to be paid out of this sum.
2. *Twenty Fellowships* are assigned, each yielding the sum of \$320 annually, University fees to be paid out of this sum.
3. *Honorary Fellowships*, yielding no income and requiring no service, will be assigned as a mark of distinction in special cases.
4. *The appointment to a Fellowship* is based upon proficiency already obtained in a given department. It is very desirable that the student should have spent at least one year in resident study after

receiving his Bachelor's degree. In making the appointment, special weight is given to theses, indicating the candidate's ability to do original investigation.

5. *Service.* In order to cultivate independence on the part of the student, and to obtain for him the advantage which proceeds from practical work, each student on a Fellowship is expected to render assistance of some kind in connection with the work of the University. This assistance consists, for the most part, in service (1) as an instructor, either in Colleges of the University, or in affiliated colleges; but in no case will a student be expected, or allowed, to devote more than one-sixth of his time to such service; (2) as assistant in reading examination papers; or (3) as an assistant on a University Journal.
6. *Outside Work.* During the term of appointment a Fellow may not do outside work for pecuniary compensation without the special permission of the President.
7. *Quarterly Report.* The Fellow makes to the President, at the end of each quarter, a written report, endorsed by the Head or Acting Head of his department indicating (1) the amount and character of the work which he has been called to perform as an officer of the University, and (2) the particular work he has accomplished as a student.
8. *The annual assignment of Fellowships* takes place May 1, and applications must be made on, or before, April 1.
9. *Method of application.* Applications for a Fellowship should be addressed to the President of the University. Such application should be accompanied by
 - (1) A brief sketch of the life and work of the applicant.

- (2) A catalogue of the institution from which he has received his Bachelor's degree, with the courses in which he has studied marked.
- (3) Any theses or papers of a scientific character which have been prepared by the applicant, whether printed or otherwise.
- (4) Letters or testimonials from former instructors in regard to the applicant's ability in the particular line in which he applies for a Fellowship.

A blank form of application will be furnished by the Dean of the Graduate School of Arts and Literature or the Dean of the Ogden (Graduate) School of Science.

DOCTORS' THESES AND EXAMINATIONS FOR ADVANCED COURSES.

Students who are candidates for the higher degrees at the July Convocation will note the following announcements:

1. Students who are candidates for the Doctor's Degree must submit the thesis, the subject of which has already been approved, in written form to the Head or Acting Head of the Department, on or before Friday, March 23.
2. Students who are candidates for the Master's Degree will submit their thesis in written form on or before Tuesday, May 1.
3. Students who are candidates for the degree of Bachelor of Divinity or Bachelor of Theology must submit their thesis on or before Friday, March 23.
4. In all cases the applicants will present in writing to the proper dean a statement indicating the date at which they will be prepared to take the final examination.

CANDIDATES FOR THE DEGREES OF A.M. OR S.M.

are notified that Friday, April 20, 1894, is the last day for handing in theses for the degrees to be conferred at the July Convocation.

HOLIDAYS AND OTHER SPECIAL DAYS.

February 12, Monday, Lincoln's Birthday; observed as a holiday.

February 22, Thursday, Washington's Birthday; a holiday. Address before the members of the University by Governor William McKinley, of Ohio, in the *Theatre, Kent Chemical Laboratory*, at 11:00 A.M.

May 30, Wednesday, Memorial Day; a holiday.

The Winter Quarter closes on Sunday, March 25, with a recess from March 26 to 31.

The Spring Quarter begins on Sunday, April 1.

REGISTRATION AND EXAMINATIONS FOR ADMISSION.

Tuesday, March 8, is the last day for handing in registration cards for the Spring Quarter.

Incoming students may register up to Monday, April 2, 4:00 P.M.

In addition to the statements concerning examinations for admission, found on pages 14 to 19 of the "CIRCULAR OF INFORMATION" published August 1, 1893, the following points are to be noted :

- (1) Every candidate for admission should present, *at the time of examination*, a testimonial as to character. This is required of all who are admitted to the University, and much inconvenience will be avoided by presenting it at that time.

- (2) The Principal's recommendation referred to in paragraph (5), page 19 of the CIRCULAR OF INFORMATION, must be presented at the time of examination in order to have any weight in determining the candidate's standing.

- (3) Two units in History may be gained by passing examination, in addition to those named on page 15 of the CIRCULAR, on one year's work in Mediæval and Modern History, or on one major in each of these two branches and a third major in English, German, French or Oriental History, or advanced History of the United States.

SPECIAL EXAMINATIONS.

A fee of not less than \$10.00 nor more than \$15.00 special examinations. will be hereafter required of all students that apply for

QUARTERLY EXAMINATIONS.

The Quarterly examinations for the current Winter Quarter will be held March 21-23. One half day will be devoted to each exercise, in the order of the daily programme, as seen in the following scheme :

EXERCISE.	EXAMINATION.
8:30 A.M.	Wednesday, March 21, A.M.
9:30 A.M.	Wednesday, March 21, P.M.
10:30 A.M.	Thursday, March 22, A.M.
11:30 A.M.	Thursday, March 22, P.M.
2:00 P.M.	Friday, March 23, A.M.
3:00 P.M.	Friday, March 23, P.M.

Exercises occurring at or after 4:00 P.M. will have their examinations on Saturday, March 24.

The hours of the morning examinations will be from 9 to 12, of the afternoon examinations from 2 to 5.

During the examinations, the usual lectures and recitations will be suspended.

CIRCULARS OF INFORMATION.

The *Circulars of Information* which are reprints of certain portions of the UNIVERSITY REGISTER will be sent upon application.

The Circular of Information concerning THE FACULTIES OF ARTS, LITERATURE, AND SCIENCE contains in Part I. a statement of the dates upon which various University events occur, a list of departments of instruction, the terms of admission to the *Graduate School*, conditions of candidacy for the degrees of master of arts, master of science, master of philosophy and doctor of philosophy, statements concerning University fellowships and docentships, the method of application for the same, statements concerning theses and examinations, departmental journals and other departmental publications, regulations governing the selection of courses, non-resident work, rooms and fees. Part II. of the circular describes the organization of the *Colleges*, contains the regulations governing the admission of students to advanced standing, the admission of unclassified students, the selection of courses, average annual expenses, the students' fund society, the employment bureau, the conditions of candidacy for the degrees of bachelor of arts, bachelor of philosophy, and bachelor of science, the requirements for admission to the Academic Colleges, the regulations governing the examinations for admission, and the courses of study in the Academic Colleges. Part III. contains a list of the courses offered for the current year in the Graduate School and the University College of Arts and Literature, the Ogden (Graduate) School of Science, and University College of Science, and the Academic Colleges, together with the order of examinations for admission.

The Circular of Information for THE DIVINITY SCHOOL contains an historical statement, a list of the officers of government and instruction, a list of courses for the current year in the Graduate Divinity School, the English Theological Seminary, the Danish-Norwegian Theological Seminary, and the Swedish Theological Seminary; articles upon the purpose and constituency of the Divinity School, the terms of admission, the departments of instruction, regulations governing the selection of courses, conditions of candidacy for degrees or certificates, theses and examina-

tions, the library, fellowships, opportunities for religious work, special regulations, expenses and opportunities for self-help, together with a list of the students in the various departments.

The Circular of Information for THE UNIVERSITY EXTENSION DIVISION is issued in three separate parts. Part I. relates to the work of the *Lecture-study Department*. It contains (1) information relating to the general plan of University Extension lecture-studies and to the credit extended for the work done, directions in reference to organization, information as to expenses of the courses of lectures, and other information helpful to local Committees in organizing and promoting the work of University Extension in their towns; (2) a list of the lecturers, with a full statement of the subjects of their courses, and also of the separate lectures included in each course.

Part II. relates to the work of the *Correspondence-teaching Department*. It contains (1) general information relating to the purpose and method of instruction offered by Correspondence, the relation of Correspondence students to the University, the credit which they receive for the work, and other information for the guidance of those who desire to receive University instruction by Correspondence; (2) courses of instruction offered in this Department.

Part III. relates to the work of the *Class-work Department*. It contains (1) general information as to the aim, method, and organization of the work, the relation of Class-work students to the University, the regulation for examinations, the credit for the work done, and the regulations governing the selection of courses; (2) a full statement of the classes organized and the work offered in the Class-work Department of the University Extension Division.

THE UNIVERSITY ACADEMY at Morgan Park also issues a CALENDAR, which will be sent upon application, giving a list of the officers of government and instruction, and containing information in regard to the requirements for admission, the courses of study, average expenses, scholarships, self-help, the dormitories, special regulations, together with a description of the buildings and grounds and a list of the students in attendance during the current year.

The University (Proper).

ANNOUNCEMENT OF COURSES OFFERED BY THE FACULTY OF ARTS, LITERATURE, AND SCIENCE.

OCTOBER 1, 1893, TO OCTOBER 1, 1894.

NOTE.—The following is a list of the titles of courses to be given in the University from October 1, 1893, to October 1, 1894.

For a complete description of the courses consult the ANNUAL REGISTER and the DEPARTMENTAL PROGRAMMES. The number of each course in the REGISTER is indicated by the number in parentheses following the title of the course.

The hour of the exercise is indicated after each course. In case no hour is indicated it will be arranged when the class is formed. The days on which exercises are held will be designated by the instructor.

Courses marked by a star are intended exclusively or primarily for Graduate Students.

Full Announcements for the Summer Quarter (1894) will be made in the May Calendar.

Abbreviations: A, B, C, D, refer to the floors in Cobb Lecture Hall, beginning with the ground floor as A. The rooms are numbered. K=Kent Chemical Laboratory, R=Ryerson Physical Laboratory, W=Walker Museum.

The abbreviations used in the descriptions of the courses are: M—Minor, DM—Double Minor, MM—Major, DMM—Double Major.

REGISTRATION.—Students in residence must register for the Spring Quarter on or before March 8; the registration card may be obtained from the Dean. The student will, (1) write upon the card the titles and numbers of the courses which he desires to take; (2) secure the signatures of the instructors giving these courses together with the endorsement of the head or acting head of the department in which his principal work is done, and (3) deposit the same in the office of the Dean on or before March 8.

Students entering the University for the first time or resuming work after an absence of a Quarter or a Term must register on or before April 2, 1894. Registration after this date may be secured only, (1) by special permission granted by the Dean, and (2) after the payment of a special fee of five dollars.

THE GRADUATE SCHOOL AND THE UNIVERSITY COLLEGE OF ARTS AND LITERATURE.

I. A. PHILOSOPHY.

R. and C 1, 10–12.

Autumn Quarter.

ASSOCIATE PROFESSOR STRONG.

Introductory Course: Logic. DM. (1) At 3:00
***Advanced Psychology.** DM. (10) At 9:30

ASSISTANT PROFESSOR TUFTS.

General History of Philosophy. DM. (4) At 10:30
Kant's Critique of Pure Reason. DM. (6) At 11:30
Prerequisite: course 4.

***Seminar: The Philosophy of Kant.** DM. (7)
Prerequisite: course 6. At 11:30

DR. MONIN.

***History of Education.** DM. (15) At 4:00

DR. MEZES.

***Advanced Ethics.** DM. (12) At 3:00

Winter Quarter.

ASSOCIATE PROFESSOR STRONG.

Introductory Course: Psychology. DM. (2) At 3:00
***Advanced Psychology.** DM. (10) At 9:30

ASSISTANT PROFESSOR TUFTS.

General History of Philosophy. DM. (4) At 10:30
***Seminar: The Philosophy of Kant.** DM. (7)
Prerequisite: course 6. At 11:30

DR. MONIN.

***Theory of Education.** M. 1st Term. (13) At 4:00

DR. MEZES.

***Schopenhauer and Hartmann.** DM. (5) At 10:30

Spring Quarter. Revised.

ASSOCIATE PROFESSOR STRONG.

***Advanced Psychology.** DM. (10) At 8:30
***Seminar in Psychology.** DM. (16)
Prerequisite: course 10. At 8:30

ASSISTANT PROFESSOR TUFTS.

Movements of Thought in the Nineteenth Century.
M. 1st Term. (4a). This course forms the conclusion of the General History of Philosophy, but it may be taken separately by those who have had courses 1-3. At 10:30

***Advanced Logic and Theory of Knowledge.**
M. 1st Term (11). This course is designed to

follow the courses of the Autumn and Winter Quarters on the Philosophy of Kant. At 11:30

DR. MEZES.

Introductory Course: Philosophy. DM. (3) At 3:00

* Spencer's First Principles. M. 2d Term. (9) At 10:30

Summer Quarter.

ASSISTANT PROFESSOR TUFTS.

Psychology. DM. (2a) At 10:30

History of Modern Philosophy. DM. (4b) At 8:30

I. B. APOLOGETICS AND ETHICS.

C 10.

Autumn Quarter.

PROFESSOR ROBINSON.

Apologetics and Christian Evidences. DMM. (1) At 11:30.

Winter Quarter.

PROFESSOR ROBINSON.

Ethics. M. 1st Term. (2) At 10:30

Advanced Ethics. M. 2d Term. (3) At 10:30

II. POLITICAL ECONOMY.

C 3-8.

Autumn Quarter.

HEAD PROFESSOR LAUGHLIN.

* Economic Seminar. DM. (19) At 3:00

Money and Practical Economics. DM. (9) At 11:30

PROFESSOR A. C. MILLER.

Finance. DM. (15) At 3:00

Principles of Political Economy. DM. (1) At 8:30

MR. HILL.

Railway Transportation. DM. (12) At 2:00

DR. VEBLEN.

American Agriculture. DM. (16) At 10:30

DR. HOURWICH.

Statistics. DM. (10) At 9:30

Winter Quarter.

HEAD PROFESSOR LAUGHLIN.

* Economic Seminar. DM. (19) At 3:00

PROFESSOR A. C. MILLER.

* Seminar in Finance. DM. (18) At 4:00

Advanced Political Economy. DM. (1a) At 8:30

MR. CALDWELL.

History of Political Economy. DM. (5) At 10:30

Descriptive Political Economy. DM. (1b) At 8:30

MR. HILL.

Industrial and Economic History. DM. (2) At 9:30

Railway Transportation. DM. (12) At 2:00

DR. VEBLEN.

Socialism. DM. (7) At 10:30

DR. HOURWICH.

Advanced Statistics. DM. (11) At 9:30

MR. CUMMINGS.

Comparative Study in Economic and Social Ideals.

DM. At 11:30

MESSRS. HILL, LOVETT, AND CLARK.

Oral Debates. DM. (4)

Discussion of Current Economic Questions.

[See also Department of English Language and Literature].

Spring Quarter Revised.

HEAD PROFESSOR LAUGHLIN.

* Economic Seminar. DM. (19) At 3:00

Unsettled Problems of Economic Theory. DM. (4) At 11:30

PROFESSOR MILLER.

* Seminar in Finance. DM. (18) At 4:00

Financial History of the United States. DM. (14) At 9:30

ASSOCIATE PROFESSOR BEMIS.

Social Economics. DM. (8B) At 2:00

MR. CALDWELL.

Scope and Method of Political Economy. DM. (3) At 8:30

History of Political Economy. DM. (5) At 10:30

MR. HILL.

Industrial and Economic History. DM. (2) At 9:30

Tariff History of the United States. DM. (13) At 2:00

DR. VEBLEN.

Socialism. DM. (7) At 10:30

DR. HOURWICH.

Advanced Statistics. DM. (11) Mondays and Fridays At 10:30-12:30

MR. CUMMINGS.

State Interference in the Distribution of Wealth.

DM. (8A) At 3:00

Summer Quarter.

PROFESSOR MILLER.

- Principles of Political Economy. DM. (1) At 8:30
 History of Political Economy. DM. (5) At 11:30

MR. CALDWELL.

- Economic Factors in Civilization. DM. (6) At 9:30
 Scope and Method of Political Economy. DM. (3)
 At 3:00

DR. HOURWICH.

- Statistics. DM. (10) Mondays and Fridays,
 At 10:30-12:30

MR. HILL.

- Railway Transportation. DM. (12) At 10:30
 Tariff History of the United States. DM. (13)
 At 2:00

III. POLITICAL SCIENCE.

C 1, 9, 10, 12.

Autumn Quarter.

PROFESSOR JUDSON.

- *Seminar in Politics. DM. (1)
 From 4:00 to 6:00 on Tuesdays
 *Comparative Politics. National Institutions.
 DM. (2) At 9:30

PROFESSOR LAWRENCE.

- International Law. DM. (7) At 11:30

MR. CONGER.

- Anthropo-Geography. DM. (17) At 10:30

MR. WILCOX.

- Civil Government in the United States. Pre-
 liminary course. DM. (12) At 11:30

Winter Quarter.

PROFESSOR JUDSON.

- *Seminar in Politics. DM. (1)
 From 4:00 to 6:00 on Tuesdays
 *Comparative Politics. DM. (3) At 9:30
 American Constitutional Law. American
 Commonwealths. DM. (5) At 10:30
 Course 5 should be preceded by course 12.

PROFESSOR LAWRENCE.

- International Law. DM. (8) At 11:30
 (Course not given.)

MISS WALLACE.

- Spanish-American Institutions. DM. (13) At 11:30
 (Course not given.)

MR. CONGER.

- Anthropo-Geography. DM. (15) At 10:30

Spring Quarter. Revised.

PROFESSOR JUDSON.

- *Seminar in Politics. DM. (1)
 Tuesdays, from 4:00 to 6:00
 The Elements of Political Science. DM. (6)
 To be preceded by Courses 12 and 5. At 10:30
 *Comparative Politics. Municipal Institutions.
 DM. (4) At 9:30

MR. CONGER.

- Geography of Europe. An introduction to the his-
 tory of Europe. Open to students of the
 Academic Colleges. DM. (16) At 11:30

Summer Quarter.

PROFESSOR JUDSON.

- Comparative Politics. National Institutions.
 DM. (12 repeated.) At 9:30
 Civil Government in the United States. DM. (18)
 At 10:30

MR. CONGER.

- Geography of Europe. An introduction to the His-
 tory of Europe. Open to students of the
 Academic Colleges. DM. (16 repeated.)
 At 11:30

NOTE.—Courses in Roman Law, General Jurisprudence, Admin-
 istrative Law, and International Law will be offered in
 1894-5.

IV. HISTORY.

C 5-8.

Autumn Quarter.

HEAD PROFESSOR VON HOLST.

- Seminar: Special Topics connected with Ameri-
 can, Political, and Constitutional History.
 DM. (34) Mondays, from 4:00-6:00
 History of the French Revolution and the Napoleo-
 nic Era. DM. (19) At 3:00

PROFESSOR TERRY.

- The Decline of Rome and the Dissolution of the
 Ancient Classical Civilization. DM. (10) At 2:00
 *Seminar: Early German Institutions. DM. (30)
 Wednesdays and Fridays, from 4:00-6:00

ASSOCIATE PROFESSOR GOODSPEED.

- The History of Antiquity to the Persian Empire.
 M.M. (or DM.) 1st Term (1) At 4:00

DR. SCHWILL.

The Protestant Reformation and the Religious Wars. DM. (44) At 10:30

DR. SHEPARDSON.

Territorial Growth of the United States. DM. (22) At 11:30

Winter Quarter.

HEAD PROFESSOR VON HOLST.

Seminar: Special Topics connected with American History. DM. (35)

Mondays, from 4:00-6:00

The French Revolution and the Napoleonic Era. The Republic. DM. (20) At 3:00

PROFESSOR TERRY.

* Seminar: Early English Institutions. DM. (31) Wednesdays and Fridays, from 4:00-6:00

The First Attempt to Reorganize Barbaric Society in Europe under Roman Forms. DM. (11) At 2:00

ASSOCIATE PROFESSOR GOODSPEED.

Post Exilic Biblical History from the Exile to the Christian Era. M. 1st Term. (2a) At 4:00

The Early Christian History in its Relation to the Græco-Roman World. M. 2d Term. (2b) At 4:00

DR. SCHWILL.

The French Revolution and the Era of Napoleon. DM. (45) At 10:30

DR. SHEPARDSON.

Social Life in the American Colonies. DM. (23) At 11:30

Spring Quarter. Revised.

HEAD PROFESSOR VON HOLST.

Seminar: Special Topics connected with American History. DM. (36)

Mondays, from 4:00-6:00

The French Revolution and the Napoleonic Era. The Consulate and the Empire. DM. (21) At 3:00

PROFESSOR TERRY.

* Seminar: Later English Institutions. DM. (32) Wednesdays and Fridays, from 4:00-6:00

The First Attempt to Reorganize Barbaric Society in Europe under Roman Forms (continued). DM. (11) At 8:30

ASSOCIATE PROFESSOR GOODSPEED.

The History of Egypt. M. 1st Term. (3a) At 4:00

The History of Babylonia and Assyria. M. 2d Term. (3b) At 4:00

The History of Greece to the death of Alexander. DM. (4) At 2:00

DR. SCHWILL.

Studies in the Origin of the Italian Renaissance. DM. (13) Wed. and Fri., from 10:30-12:30

DR. SHEPARDSON.

Outline History of the United States. DM. (46) At 11:30

Summer Quarter.

PROFESSOR TERRY.

* Seminar: Early German History. DM. (33) Mondays and Saturdays, from 8:30-10:30

The Great Migrations. DM. (15) At 8:30

ASSOCIATE PROFESSOR GOODSPEED.

The Relations of Hebrew and Egyptian History. M. 1st Term. (5a) At 4:00

The Relations of Hebrew and Babylonio-Assyrian History. M. 2d Term. (5b) At 4:00

ASSISTANT PROFESSOR THATCHER.

The History of Mohammedanism to the end of the Crusades. DM. (14) At 10:30

NOTE: Courses 43-46 are prescribed as preliminary to the work offered in History in the Graduate School and hence are required of all students, whether graduates of the University of Chicago or of any other institution, who take standing in this department in the Graduate School. They are repeated each year.

V. SOCIAL SCIENCE AND ANTHROPOLOGY.

C 2, 10-12 and W.

Autumn Quarter.

HEAD PROFESSOR SMALL.

* Seminar: The Psychology, Ethics and Sociology of Socialism. 3DM. (23)

* The Province of Sociology and its relation to the Special Social Sciences. DM. (24) At 8:30

* Problems of Social Statics. DM. (27) At 9:30

ASSISTANT PROFESSOR HENDERSON.

* Seminar: Social Organizations for Promoting Social Welfare. DM. (14)

Social Institutions of Organized Christianity. M. (or MM.) 1st Term. (15) At 2:00

Social Treatment of Dependents and Defectives. M. (or MM.) 2d Term. (16) At 2:00

ASSISTANT PROFESSOR TALBOT.

Seminar in Sanitary Science. DM. (10)

House Sanitation. DM. (11) At 11:30

ASSISTANT PROFESSOR STARR.

- Laboratory Work in Anthropology. DM. (1)
 Physical Anthropology. Laboratory Work. DM. (2)
 Physical Anthropology. Elementary Course. DM.
 (9) At 11:30

DR. WEST.

- Applied Anthropology. DMM. (3) At 3:00

Winter Quarter.

HEAD PROFESSOR SMALL.

- *Seminar: The Psychology, Ethics, and Sociology
 of Socialism. 3DM. (23)
 *Social Psychology. DM. (25) At 8:30
 *Problems of Social Statics. DM. (27) At 9:30

ASSISTANT PROFESSOR HENDERSON.

- *Seminar: Social Organizations for Promoting
 Social Welfare. DM. (14)
 Criminology. DM. (or MM). (17) At 2:00

ASSISTANT PROFESSOR TALBOT.

- Seminar in Sanitary Science. DM. (10)
 Sanitary Aspects of Water, Food, and Clothing.
 DM. (12) At 10:30

ASSISTANT PROFESSOR STARR.

- Laboratory Work in Anthropology. DM. (1)
 Physical Anthropology. Laboratory Work. DM.
 (2)
 Ethnology of North America. DMM. (7) At 11:30

DR. WEST.

- Applied Anthropology. DMM. (3) At 3:00

Spring Quarter. Revised

HEAD PROFESSOR SMALL.

- *Seminar: The Psychology, Ethics, and Sociology
 of Socialism. 3DM. (23) Thursdays, at 3:00
 *The Organic Functions of the State and of Gov-
 ernment. DM. (26) At 8:30
 Problems of Social Statics. DM. (27) At 9:30

ASSISTANT PROFESSOR HENDERSON.

- *Seminar: Social Organizations for Promoting
 Social Welfare. DM. (14) Tuesdays, 3:00-5:00
 The Family. M. (or MM). 1st Term. (18) At 2:00
 Non-Political and Non-Economical Social Institu-
 tions. M. (or MM). 2d Term. (19) At 2:00

ASSISTANT PROFESSOR TALBOT.

- Seminar in Sanitary Science. DM. (10). At 3:00
 The Economy of Living. DM. (12a) At 10:30

ASSISTANT PROFESSOR STARR.

- Laboratory Work in Anthropology. DM. (1)
 At 2:00

- Physical Anthropology. Laboratory Work. DM.
 (2) At 2:00

- Prehistoric Archæology of North America, espe-
 cially of Mexico. DM. (8) At 11:30

ASSOCIATE PROFESSOR BEMIS.

- Labor Legislation, and some other Phases of
 State Activity on behalf of Wage Workers.
 DM. (21) At 10:30

DR. WEST.

- Applied Anthropology. DMM. (3) At 3:00

Summer Quarter.

HEAD PROFESSOR SMALL.

- *The Methodology and Bibliography of Social
 Science. M. 1st Term. (22) At 9:30
 *The Province of Sociology and its Relation to
 the Special Social Sciences. MM. 1st Term.
 (24) At 8:30 and 3:00

ASSISTANT PROFESSOR HENDERSON.

- Methods of Promoting Social Welfare by Volun-
 tary Organizations. MM. 2d Term. (20)
 At 8:30 and 3:00

ASSOCIATE PROFESSOR BEMIS.

- Labor Legislation and some other Phases of
 State Activity on behalf of Wage Workers.
 DM. (21)

DR. THOMAS.

- The Historical Sociologies. DM. (30)

Course 27 forms Part II of the system of Social
 Philosophy introduced by courses 24 and 25.
 Course 26 may be taken by students who are
 suitably prepared without course 24 and 25, or
 students who wish to make Social Science their
 principal subject, may combine courses 24,
 25, and 26, as three double Majors.

Courses 24 and 25 will be required of all candi-
 dates for the degree of Doctor of Philosophy
 who present Social Science either as primary or
 secondary subject.

VI. COMPARATIVE RELIGION.

D 15.

Autumn Quarter.

ASSOCIATE PROFESSOR GOODSPEED.

- The Indian Religions. DM. (1) At 3:00

Winter Quarter.

ASSOCIATE PROFESSOR GOODSPEED.

- The Religions of China. M. (2a) At 3:00

- MR. BUCKLEY.
 The Religions of Japan. M. (2b) At 3:00
Spring Quarter. Revised.
- ASSOCIATE PROFESSOR GOODSPEED.
 The Religions of Greece, Rome, and Northern Europe. DM. (3) At 3:00
Summer Quarter.
- ASSOCIATE PROFESSOR GOODSPEED.
 Islam. DM. (4) At 3:00
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- VII. SEMITIC LANGUAGES AND LITERATURES.
 D 12-16.
Autumn Quarter.
- HEAD PROFESSOR HARPER.
 Later Suras of the Kuran. DMM. or DM. (65) At 8:30 and 9:30
 Hexateuchal Analysis. DM. (55) At 8:30
- PROFESSOR HIRSCH.
 Introduction to Talmudic Literature. M. 1st Term. (34) At 2:00
 Job. M. 1st Term. (40) At 3:00
 Reading of Selected Portions of the Babylonian Talmud. M. 2d Term. (37) At 2:00
 Introduction to the Textual Criticism of the Old Testament. M. 2d Term. (38) At 3:00
- ASSOCIATE PROFESSOR PRICE.
 Messianic Prophecy. DM. (30) At 4:00
 Bilingual Babylonian Psalm Literature. M. 2d Term. (77) At 3:00
 Earliest Unilingual Cuneiform Inscriptions. M. 1st Term. (78) At 3:00
- ASSOCIATE PROFESSOR GOODSPEED.
 The History of Antiquity. DM or MM. (IV. 1) At 4:00
- DR. CRANDALL.
 Sight Translation in Hebrew. DM. (8) At 9:30
- DR. KENT.
 Old Testament Wisdom Literature. DM. (31) At 10:30
Winter Quarter.
- HEAD PROFESSOR HARPER.
 Arabic Poetry and Inscriptions. DM. (68) At 9:30
 Hebrew Language. DM. (1) At 8:30
- PROFESSOR HIRSCH.
 Abodah Zarah. M. (48) 1st Term. At 2:00
- Selected Portions of the Mishna. M. 1st Term. (43) At 3:00
 Coptic. M. 2d Term. (44) At 2:00
 New Testament and Talmudic Analogies. M. 2d Term. (46)
- ASSOCIATE PROFESSOR PRICE.
 Jeremiah. M. 1st Term. (21) At 3:00
 Isaiah, Chapters XL-LXVI. M. 2d Term. (23) At 3:00
 Biblical Aramaic. DM. (80) At 4:00
- ASSOCIATE PROFESSOR GOODSPEED.
 Biblical History, from the Exile to the Christian Era. M. 1st Term. (IV. 2a.) At 4:00
- ASSOCIATE PROFESSOR HARPER.
 Beginning Assyrian. MM. 1st Term. (69) At 10:30 and 3:00
 Advanced Assyrian. MM. 2d Term. (71) At 10:30 and 3:00
 Beginning Syriac. DM. (88) At 11:30
- DR. CRANDALL.
 Historical Hebrew. M. 2d Term. (4) At 9:30
- DR. KENT.
 Apocryphal Wisdom Literature. DM. (32) At 10:30
Spring Quarter. Revised.
- HEAD PROFESSOR HARPER.
 The Three Legal Codes. M. 1st Term. (13) At 4:00
 Seminar in Comparative Semitic Grammar. DM. (94) Saturdays 10:30-12:30
 Old Testament Legal Literature. M. 2d Term. (27) At 4:00
 Hebrew Syntax. M. 2d Term. At 3:00
- PROFESSOR HIRSCH.
 Arabic: Thousand and One Nights. DM. (66) At 2:00
 Advanced Syriac. DM. (50) At 3:00
- ASSOCIATE PROFESSOR PRICE.
 The Books of Samuel. M. 1st Term. At 3:00
 Modern Discoveries and the Old Testament. M. 1st Term. (56) At 2:00
- ASSOCIATE PROFESSOR GOODSPEED.
 The History of Babylonia and Assyria. M. 2d Term. (IV. 3b) At 4:00
- ASSOCIATE PROFESSOR HARPER.
 Mesopotamian Geography. M. 1st Term. (61) At 9:30
 Assyrian and Babylonian Life. M. 2d Term. (59) At 9:30

Assyrian Letters. M. 1st Term. (75) At 10:30
 Babylonian Contracts. M. 2d Term. (76) At 10:30
 Early Historical Inscriptions. DM. (72) At 11:30

DR. CRANDALL.

Sight Translation in Hebrew. M. 2d Term. (9)
 At 4:00
 The Books of Samuel. M. 1 Term. (6) At 3:00

DR. KENT.

Outline of Hebrew History. DM. At 11:30
 Minor Prophets of the Assyrian Period. M. 1st
 Term. At 10:30
 Messianic Prophecy. M. 2d Term. At 10:30

Summer Quarter.

HEAD PROFESSOR HARPER.

The Minor Prophets of the Babylonian Period.
 M. 2d Term. (11) At 7:30
 The Arabic Language. M. 2d Term. (63) At 8:30
 Advanced Hebrew Grammar. M. 2d Term. (97)
 At 9:30

ASSOCIATE PROFESSOR PRICE.

Hebrew Language. MM. 1st Term. (3)
 At 8:30 and 3:00
 Ezekiel. (English.) M. 1st Term. (XV. A. 3)
 At 2:00

ASSOCIATE PROFESSOR GOODSPEED.

Relation of Hebrew and Babylonio-Assyrian
 History. M. 2d Term. (IV. 5b) At 10:30
 The Relations of Hebrew and Egyptian History.
 M. 1st Term. (IV. 5a) At 4:00
 Islam. DM. (VI. 4) At 3:00

ASSOCIATE PROFESSOR HARPER.

Assyrian Language. MM. (70) At 9:30
 Advanced Assyrian. MM. (71) At 8:30 and 3:00
 The Book of Proverbs. M. 1st Term. (17) At 10:30
 Micah. M. 2d Term. (14) At 10:30

DR. CRANDALL.

Historical Hebrew. M. 2d Term. (5) At 9:30

MR. VOTAW.

Paul's Corinthian Epistles. M. 2d Term. (14)
 At 2:00

Winter Quarter.

HEAD PROFESSOR BURTON.

New Testament Quotations from the Old Testa-
 ment. Part I. The Gospels. DM. (24)

DR. ARNOLT.

History of the Problem of the Synoptic Gospels, and
 of the Historical Criticism of the Fourth Gospel.
 DM. (25) At 7:30

Spring Quarter. Revised.

DR. ARNOLT.

The Origin and History of the Septuagint and
 other Greek Versions of the Old Testament.
 DM. (43) At 8:30

MR. VOTAW.

Rapid Translation and Interpretation of certain
 Pauline Epistles. DM. (4) At 10:30

Summer Quarter.

ASSOCIATE PROFESSOR MATHEWS.

The Epistle to the Galatians. M. 2d Term. (31)

DR. ARNOLT.

New Testament Syntax: Noun, Pronoun, and Pre-
 positions. M. 2d Term. (3) At 7:30

Paul's Epistles to the Thessalonians. M. 2d Term.
 (30) At 8:30

New Testament Quotations from the Old Testa-
 ment. Part II. The Epistles. M. 1st Term.
 (41) At 7:30

See also courses in New Testament Literature and
 Exegesis in the Graduate Divinity School, which
 are open to students of the Graduate School
 and University Colleges.

VIII. BIBLICAL AND PATRISTIC GREEK.

D 10-16.

Autumn Quarter.

DR. ARNOLT.

Patristic Greek. Justin Martyr; Teaching of the
 Apostles; Gospel and Revelation of Peter.
 DM. (Special course). At 7:30

IX. SANSKRIT AND INDO-EUROPEAN COMPARATIVE
 PHILOLOGY.

B 2-8.

Autumn Quarter.

ASSISTANT PROFESSOR BUCK.

*Sanskrit, for Beginners. DM. (2) At 10:30

*Comparative Grammar of the Latin Language.
 DM. (4) At 9:30

Winter Quarter.

ASSISTANT PROFESSOR BUCK.

- *Sanskrit (continued). DM. (2) At 10:30
 *Seminar. DM. (5)

Spring Quarter. Revised.

ASSISTANT PROFESSOR BUCK.

- *Sanskrit (continued). DM. (2) At 10:30
 *Avestan (Zend). DM. (6) At 11:30

Summer Quarter.

ASSISTANT PROFESSOR BUCK.

- Sanskrit, for Beginners.** With a general introduction to the Study of Indo-European Comparative Philology. DMM. (10) At 10:30

- Selected Plays of Sophocles and Euripides. DM. (14) At 10:30

Spring Quarter. Revised.

PROFESSOR SHOREY.

- Introduction to Study of the Greek Drama.** Open to students in the Academic Colleges who have completed two or three Majors with credit. DM. (17) At 10:30

- *Seminar: The History of Ancient Philosophy. DM. (20) Monday at 3:00

- *Literary Criticism and Rhetoric of the Ancients. M. 1st Term. (22) Thursday at 3:00

ASSOCIATE PROFESSOR TARBELL.

- Thucydides (Sicilian Expedition). DM. (15) At 9:30

- Classical Archæology. DM. (19) Second course. Open only to students who have elected course (16). At 10:30

Summer Quarter.

PROFESSOR SHOREY.

- Æschylus (Oresteia). M. 1st term. (12) At 10:30
 Teachers' Course. M. 1st Term. (23) At 11:30

ASSISTANT PROFESSOR CASTLE.

- Readings and Studies in the Odyssey. M. 2d Term. (10) At 10:30
 Demosthenes as an Orator and a Man. M. 2d Term. (11) At 11:30

- A Greek Reading Club meets once a week from October to June, intended primarily for undergraduates who wish to keep up their knowledge of Greek in the interval between their regular collegiate courses.

X. THE GREEK LANGUAGE AND LITERATURE.

B 2-8.

Autumn Quarter.

PROFESSOR SHOREY.

- Homer.** Open to Academic College students who have completed two or three Majors of Greek with credit. DM. (7) At 10:30
 *Seminar: The History of Ancient Philosophy. DM. (20)
 *Literary Criticism and Rhetoric of the Ancients. DM. (22) At 3:00

ASSOCIATE PROFESSOR TARBELL.

- Greek Lyric Poets.** Selections. Theocritus. Selections. DM. (8) At 10:30

Winter Quarter.

PROFESSOR SHOREY.

- *Seminar: The History of Ancient Philosophy. DM. (20)
 *Literary Criticism and Rhetoric of the Ancients. DM. (22) At 3:00

ASSOCIATE PROFESSOR TARBELL.

- Demosthenes** (Philippic and Olynthiacs); **Andocides** (On the Mysteries); **Exercises in Writing Greek Prose.** DM. (6) Open to Academic College students who have completed one or more Majors with credit.

- Introduction to Classical Archæology.** DM. (16) At 10:30

ASSISTANT PROFESSOR CASTLE.

- Demosthenes and Æschines.** DM. (9) At 9:30

XI. THE LATIN LANGUAGE AND LITERATURE.

B 2-8.

Autumn Quarter.

HEAD PROFESSOR HALE.

- *Pliny the Younger. DM. (22) At 9:30
 *Seminar 3: The Comparative Syntax of the Greek and Latin Verb. DM. (43)

PROFESSOR CHANDLER.

- Lucretius. DM. (11) At 8:30
Roman History from the Sources: The Conspiracy of Catiline. DM. (30) At 10:30

ASSOCIATE PROFESSOR ABBOTT.

- *Introduction to Latin Palæography. DM. (37)
At 11:30
*Seminar 1: Colloquial Latin. DM. (41)

Winter Quarter.

HEAD PROFESSOR HALE.

- *Juvenal. DM. (24) At 9:30
*Seminar 3: Comparative Syntax of the Greek
and Latin Verb. DM. Continued. (43)

ASSOCIATE PROFESSOR ABBOTT.

- Cicero's Letters. DM. (13) At 11:30
*Seminar 1: Colloquial Latin. DM. Continued.
(41)

ASSOCIATE PROFESSOR TARBELL (of the Greek Department.)

- Introduction to Greek and Roman Archæology.
DM. (32) At 10:30
This course is the same as X, 16.

Spring Quarter. Revised.

HEAD PROFESSOR HALE.

- *Seminar 3: Comparative Syntax of the Greek
and Latin Verb. DM. Continued. (43)
Tuesdays 3:00-5:00

PROFESSOR CHANDLER.

- Latin Hymns; Latin Prose of the Christian Church.
DM. (26) At 8:30
The Development of Roman Oratory. DM. (28)
At 10:30

ASSOCIATE PROFESSOR ABBOTT.

- Roman Administration. DM. (33) At 9:30
*Seminar 1: Colloquial Latin. DM. Continued. (41)
Wednesdays, 3:00-5:00

Summer Quarter.

HEAD PROFESSOR HALE.

- Teachers' Training Course. M. 1st Term. (40)
At 3:00
Problems in Latin Syntax. M. (40b) 1st Term.
Tuesdays, from 3:00-5:00

PROFESSOR CHANDLER.

- The Epistles of Horace. DM. (17) At 9:30
The Georgics of Virgil. M. 1st Term. (15) At 8:30
Tibullus and Propertius. M. 2d Term. (18)
At 8:30

ASSOCIATE PROFESSOR ABBOTT.

- Allen's Remnants of Early Latin. M. 1st Term.
(35) At 10:30
Persius. M. 1st Term. (19) At 11:30

XII. ROMANCE LITERATURE AND PHILOLOGY.

B 12-16.

Autumn Quarter.

HEAD PROFESSOR KNAPP.

- *Old French. DM. (1) At 9:30
*Old Spanish. DM. (5) At 10:30

ASSISTANT PROFESSOR BERGERON.

- French Literature of the Nineteenth Century.
DM. (13) At 9:30
Rapid Reading in Modern French. DMM. (14)
At 8:30 and 3:00

MISS WALLACE.

- Spanish Grammar. DM. (9) At 9:30

Winter Quarter.

HEAD PROFESSOR KNAPP.

- *Old French. DM. (2) At 9:30
*Old Spanish. DM. (6) At 10:30

ASSISTANT PROFESSOR BERGERON.

- French Literature of the XIX Century (Continued).
DM. (13 b) At 9:30
Special Course of Conversation. DMM. (15)
At 8:30 and 3:00

MR. R. DE POYEN.

- Historical French Grammar. DM. At 11:30
(Special course).

MISS WALLACE.

- Spanish Grammar and Readings. DM. (10)
At 9:30

Spring Quarter. Revised.

HEAD PROFESSOR KNAPP.

- *Old French. DM. (3) At 9:30
*Old Spanish. DM. (7) At 10:30

ASSISTANT PROFESSOR BERGERON.

- Rapid Reading (continued). DM. (16) At 9:30
Advanced Syntax and Conversation (continued).
DM. At 11:30
Nineteenth Century Literature (continued). DM.
(13) Prerequisite course 34. At 8:30
Elements of French Literature. DM. (34)
Prerequisite course 16. At 10:30

MR. R. DE POYEN.

- Historical French Grammar (continued). DM.
Special course. At 11:30

MISS WALLACE.

- Spanish Readings. DM. (11) At 9:30

Summer Quarter.

HEAD PROFESSOR KNAPP.	
*Old French. DM. (4)	At 9:30
*Old Spanish. DM. (8)	At 10:30
ASSISTANT PROFESSOR BERGERON.	
French: Nineteenth Century Literature (continued). DM. (12)	At 9:30
French: Elements of Literature (repeated). DM. (17)	At 10:30
DR. KINNE.	
French Literature of the Seventeenth Century. M. 1st Term. (21)	At 2:00
MR. HOWLAND.	
Italian Grammar. M. 1st Term. (26)	At 3:00
Knapp's Spanish Grammar and Readings. M. 1st Term. (9)	At 8:30
Advanced Spanish Reading. DM. (12)	At 9:30

XIII. GERMANIC LANGUAGES AND LITERATURES.

B 9-11.

***Germanic Seminar:** Courses 1-10, inclusive, constitute the work of the first section of the Germanic Seminar; the second section meets weekly through Autumn, Winter, and Spring Quarters for the reading and discussion of original papers by members of the Seminar and of reports upon subjects connected with the work of the first section. Mondays, At 2:00

Autumn Quarter.

ASSISTANT PROFESSOR CUTTING.	
*Faust. DM. (1)	At 2:00
Lessing as a Dramatist. DM. (10)	At 9:30
DR. SCHMIDT-WARTENBURG.	
*Comparative German Grammar. DM. (7)	At 4:00
Outline History of German Literature. DM. (12)	At 11:30
DR. VON KLENZE.	
*Gothic. DM. (3)	At 11:30

Winter Quarter.

ASSISTANT PROFESSOR CUTTING.	
*Faust. DM. (1)	At 2:00
German Prose Composition. DM. (16)	At 9:30
DR. SCHMIDT-WARTENBURG.	
*Old High German (Introductory). DM. (4)	At 3:00
*Middle High German (Advanced). DM. (8)	At 4:00

Spring Quarter. Revised.

DR. SCHMIDT-WARTENBURG.	
*Introduction to Phonetics. M. 2d Term. (6)	At 3:00
*Old High German. M. 1st Term. (9)	At 3:00
DR. VON KLENZE.	
*Goethe's Life. DM. (2)	At 3:00
German Ballads. DM. (13)	At 2:00
Heine's Prose and Poetry. DM. (14)	At 4:00
MR. WOOD.	
Early Nineteenth Century Prose. DM. (15)	At 10:30

Summer Quarter.

ASSISTANT PROFESSOR CUTTING.	
*Middle High German. DM. (5)	At 2:00
Schiller's Wallenstein. DM. (11)	At 9:30
DR. VON KLENZE.	
*Gothic. DM. (3)	At 3:00

AUXILIARY COURSES.

For graduate students in departments other than Germanic.

DR. SCHMIDT-WARTENBURG.	
*Scientific Reading. Subjects connected with Bio- logical Sciences. DM. Winter Quarter. (26)	At 10:30
DR. VON KLENZE.	
*Scientific Reading. Subjects connected with Social Sciences. DM. Autumn Quarter. (25)	At 10:30
*Scientific Reading. Subjects connected with Phys- ical Sciences. DM. Summer Quarter. (27)	At 10:30

XIV. THE ENGLISH LANGUAGE AND LITERATURE AND RHETORIC.

K.

Autumn Quarter.

PROFESSOR WILKINSON.	
Poetics. DM. (9)	At 10:30
Sentences. M. 1st Term. (7)	At 11:30
History and Fiction. M. 2d Term. (8)	At 11:30
ASSISTANT PROFESSOR BLACKBURN.	
*Old English, Advanced Course. DM. (27)	At 2:00
*Old English Seminar. DM. (28)	
Old English, Elementary Course. DM. (23)	At 3:00

ASSISTANT PROFESSOR CROW.

- English Literature of the Elizabethan Period.
DM. (14) At 2:00
*English Literature Seminar. Studies in Elizabethan Literature. DM. (36) At 10:30

ASSISTANT PROFESSOR McCLINTOCK.

- Milton. DM. (16) At 3:00
*English Literature Seminar. The beginnings of the Romantic Movement of the Eighteenth Century; Studies in English Literature from 1725-1775. DM. (33)

MR. HERRICK.

- Advanced English Composition. DM. (5) At 10:30

MR. TRIGGS.

- English Literature of the Nineteenth Century.
DM. (20) At 11:30

Winter Quarter.

PROFESSOR MOULTON.

- Ancient Tragedy for English Readers. DM. (12)
At 10:30

ASSISTANT PROFESSOR BLACKBURN.

- Old English, Elementary Course (continued).
DM. (24) At 3:00
Middle English. DM. (26) At 2:00
*Old English Seminar. DM. (28)

ASSISTANT PROFESSOR CROW.

- The Sources of Shakespeare's Plays. DM. (40)
At 2:00
*English Literature Seminar. Studies in Elizabethan Literature. DM. (36) At 10:30

ASSISTANT PROFESSOR McCLINTOCK.

- The Development of the English Novel from Richardson to George Eliot. DM. (17)
At 3:00
*Works of William Wordsworth. DM. (32)
At 4:00

ASSISTANT PROFESSOR TOLMAN.

- English Epic Poetry. DM. (37) At 10:30

MESSRS. HERRICK AND LOVETT.

- Development of English Prose Style. DM. (6)
At 10:30

MESSRS. LOVETT, HILL, AND CLARK.

Oral Debates. DM. (4)

[See also Department of Political Economy and Programme of English Department].

MR. TRIGGS.

- English Literature of the Nineteenth Century.
The Poetry of Tennyson and Arnold. DM. (21)
At 10:30

Spring Quarter. Revised.

PROFESSOR MOULTON.

- Tragedy in the Shakesperian Drama. DM. (13)
At 10:30

ASSISTANT PROFESSOR BLACKBURN.

- Old English, Elementary Course (continued). DM.
(25) At 3:00
*Old English Seminar. DM. (28)
Mondays, 2:00 to 4:00
Comparative Grammar of Old English. DM. (29)
At 2:00

ASSISTANT PROFESSOR CROW.

- Poetic and Verse Forms in the Elizabethan Era.
DM. (41) At 2:00
*English Literature Seminar. Studies in Elizabethan Literature. DM. (36) At 10:30

ASSISTANT PROFESSOR TOLMAN.

- *Seminar: Studies in the Origins of Shakespeare's Plays. DM. (31)
Tuesdays and Fridays, 4:00 to 6:00

MR. HERRICK.

- Advanced English Composition. DM. (5) At 9:30
(Repeated).
An Historical Outline of English Prose Literature from Dryden to Goldsmith. DM. (30) At 3:00

MR. LOVETT.

- Argumentative Composition. DM. (3) At 8:30
Prerequisites: (1 A) and (1 B).
Shakespeare: Study of Six Representative Plays.
DM. (42) At 2:00
Prerequisite: English (10).

MR. TRIGGS.

- English Literature of the Nineteenth Century.
Emerson, Thoreau, Lowell, and Whitman.
DM. (22) At 11:30
Nineteenth Century Literary Movements: Studies in Criticism, the Novel, the Essay, and Poetry.
DM. (38) At 3:00
Primarily for Graduate students, but open to University College students.

MR. CARPENTER.

- The Poetry of Spenser. DM. (35) At 9:30

Summer Quarter.

ASSISTANT PROFESSOR BLACKBURN.

- Old English. Elementary Course. DM. (23)
At 3:00
Middle English. M. 1st Term. (26) At 2:00
Studies in English Grammar. M. 2d Term. (39)
At 2:00

ASSISTANT PROFESSOR McCLINTOCK.

The Elements of Literature. DM. (19) At 9:30

* **English Literary Criticism.** DM. (34) At 10:30

MR. HERRICK.

Daily Themes, a course of Advanced English Composition. DM. (7) At 8:30

XV. BIBLICAL LITERATURE IN ENGLISH.
D 10-16.

Autumn Quarter.

MR. VOTAW.

History of the New Testament Times. DM. (B.1) At 9:30

Winter Quarter.

MR. VOTAW.

The Corinthian Epistles. DM. (B. 8, 9). At 10:30

The Life of Christ. DM. (B. 2) At 2:00

Spring Quarter. Revised.

ASSOCIATE PROFESSOR PRICE.

Isaiah, Chapters i-xxxix. M. 1st Term. (A.1) At 10:30

Summer Quarter.

ASSOCIATE PROFESSOR PRICE.

Ezekiel. M. 2d Term. (A, 3) At 10:30

ASSOCIATE PROFESSOR MATHEWS.

The Epistle to the Galatians. M. 2d Term. (B. 15)

MR. VOTAW.

The Gospel of John. M. 1st Term. (B. 10)

See Courses in Biblical Literature in English in the Graduate Divinity School, which are open to Students of the Graduate School and University Colleges.

*THE OGDEN (GRADUATE) SCHOOL AND THE UNIVERSITY COLLEGE
OF SCIENCE.*

XVI. MATHEMATICS.

R.

***The Mathematical Club and Seminar.** A fortnightly meeting continuing throughout the year, for the review of memoirs and books, and for the presentation of the results of research, open to all graduate students in mathematics; with the coöperation of the members of the Mathematical Faculty, under the presidency of Professor Moore. Alternate Fridays. At 3:00

Autumn Quarter.

PROFESSOR MOORE.

***Theory of Functions of a Complex Variable.** DM. (16) At 8:30
Prerequisites: Differential and Integral Calculus and Theory of Equations.

ASSOCIATE PROFESSOR BOLZA.

Advanced Integral Calculus. DM. (7) At 8:30
***Hyperelliptic Functions.** DM. (21) At 9:30
Prerequisites: Differential and Integral Calculus and Theory of Functions.

ASSISTANT PROFESSOR MASCHKE.

Theory of Surfaces. DM. (8) At 10:30
Prerequisites: Analytic Geometry and Differential Calculus.

Analytic Mechanics. DM. (12) At 9:30
Prerequisites: Analytic Geometry and Differential and Integral Calculus.

DR. YOUNG.

Determinants: Theory of Equations. DM. (6) At 11:30
Prerequisites: College Algebra and Plane Geometry. A continuous course for two quarters, but students may enter for the Determinants as a Minor, 1st Term, 1st Quarter.

Winter Quarter.

PROFESSOR MOORE.

***Theory of Functions of a Complex Variable.** DM. (16) At 8:30

PROFESSOR BOLZA.

Advanced Integral Calculus. DM. (7) At 8:30
Prerequisites: Differential Calculus and Indefinite Integration.

***Hyperelliptic Functions.** DM. (21) At 10:30
Continuation of Course (21) of the Autumn Quarter.

ASSISTANT PROFESSOR MASCHKE.

Theory of the Potential. DM. (14) At 9:30
Prerequisites: Analytic Geometry, Calculus, and Analytic Mechanics.

***Line Geometry.** DM. (18) At 10:30
Prerequisites: Analytic Geometry, Calculus, and Theory of Surfaces.

DR. YOUNG.

Determinants: Theory of Equations. DM. (6) At 11:30
Continued.
Prerequisites: College Algebra and Plane Trigonometry.

Spring Quarter. Revised.

PROFESSOR MOORE.

***Theta Functions.** DM. (22) At 8:30
This course is a continuation of Course 6 on the Theory of Functions of a Complex Variable, and part of the time will still be devoted to the general theory. 5 hours weekly: four lectures at 8:30, and a special Seminar on Functions on alternate Fridays at 4:00.

ASSISTANT PROFESSOR MASCHKE.

Theoretical Electricity. DM. (13) At 10:30
Prerequisites: Analytic Geometry, and Differential and Integral Calculus.

***Finite Groups of Linear Substitutions.** DM. (19) At 9:30

DR. YOUNG.

Theory of Invariants. DM. (6b) At 11:30
Continuation of (6).

DR. BOYD.

Differential Equations. DM. (10) At 8:30
Prerequisite: Advanced Integral Calculus.

Summer Quarter.

NOTE.—These announcements are preliminary and subject to change to meet more exactly the needs of prospective students. It is important that those expecting to attend should notify the instructors at once. The MAY CALENDAR will contain revised announcements.

PROFESSOR MOORE.

***Theory of Functions of a Complex Variable.** DM. (15) At 8:30

Prerequisites: A thorough knowledge of Differential and Integral Calculus.

***Elliptic Functions.** DM. (20) At 9:30

Prerequisites: Theory of Functions and Theory of Substitutions.

***Special Seminar on Functions.** In connection with and as a part of courses 15 and 20. On alternate Fridays. At 4:00

DR. YOUNG.

Theory of Numbers. DM. (9) At 10:30

The Elements of the Theory of Invariants with Applications to Higher Plane Curves. DM. (11) At 11:30

Prerequisites: Determinants, and a thorough course in the Theory of Equations.

XVII. ASTRONOMY.

R.

Autumn Quarter.

ASSOCIATE PROFESSOR HALE.

Astronomical Photography. DM. (1) At 7:30 P.M.

Prerequisites: General Astronomy and Physics.

Stellar Spectroscopy. DM. (or MM.) (3) At 7:30 P.M.

Prerequisite: Solar Physics.

DR. SEE.

***Mechanics of a System of Bodies and the Perturbing Function.** DM. (5) At 9:30

Prerequisites: Mathematics, Elements of the Theory of Orbits and of Perturbations.

Astronomical Seminar. (10)

Prerequisites: Mathematics, Astronomy.

General Astronomy. Introductory Course. DM. (11) At 11:30

Prerequisites: Algebra, Geometry, Trigonometry, and Elements of Physics.

DR. LAVES.

***Spherical and Practical Astronomy.** DM. (8) At 10:30

Prerequisites: Mathematics, Physics, and General Astronomy.

Winter Quarter.

ASSOCIATE PROFESSOR HALE.

Solar Physics. DM. (or MM.) (2) At 2:00

Prerequisites: General Astronomy and Advanced Physics.

DR. SEE.

***General Perturbations.** DM. (6) At 9:30

Prerequisites: Mathematics, Elements of the Theory of Orbits and of Perturbations.

Astronomical Seminar. (10)

Prerequisites: Mathematics, Astronomy.

General Astronomy. (continued.) DM. (11)

At 11:30

Prerequisites: Algebra, Geometry, Trigonometry, and the Elements of Physics.

DR. LAVES.

***Determination of Orbits.** DM. (8) At 4:00

***Spherical Harmonics, including the Functions of Bessel and Lamé.** DM. (8a)

Spring Quarter. Revised.

ASSOCIATE PROFESSOR HALE.

Solar Physics. DM. (2) At 2:00

Prerequisites: General Astronomy and Advanced Physics.

DR. SEE.

***Theory of Secular Perturbations and of Long-Period Inequalities.** DM. (7) At 9:30

Prerequisites: Courses 5 and 6.

History of Astronomy. DM. (12) At 11:30

Prerequisite: General Astronomy.

DR. LAVES.

***Theory of Probability and Method of Least Squares.** DM. (9) At 2:00

Prerequisites: Differential and Integral Calculus.

***Determination of the Orbits of Planets and Improvement of the Elements.** DM. (9a)

At 3:00

DR. SEE AND DR. LAVES.

***Astronomical Seminar.** Practical courses in particular topics. (See REGISTER, p. 81).

On alternate Fridays at 3:00

Summer Quarter.

DR. SEE.

***Gauss' Method of Determining Secular Perturbations, with Numerical Application to the Action of Neptune on Uranus.** DM. (13) At 9:30

***Research Course on the Orbits of Double Stars.**
DM. (14) At 10:30

DR. LAVES.

General Astronomy. Introductory course.
DM. (15) At 11:30
Prerequisites: Algebra, Geometry, Trigonometry, and the elements of Physics.

***Determination of Latitude and Longitude, with practical work in the Observatory.** DM. (16)
At 4:00

DR. SEE AND DR. LAVES.

***Astronomical Seminar.** Practical courses in particular topics. (See REGISTER, p. 81).
On alternate Fridays at 3:00

XVIII. PHYSICS.

R.

Autumn Quarter. Revised.

HEAD PROFESSOR MICHELSON.

***Research Course.** DMM. (1). (Omitted Autumn Quarter.)

***Special Graduate Course.** DM (or DMM.) (2),
At 10:30

Prerequisites: Advanced Course in General Physics.

HEAD PROFESSOR MICHELSON AND ASSISTANT PROFESSOR STRATTON.

General Physics. (Advanced.) 3 DM. (3) At 9:30
Prerequisites: Differential and Integral Calculus.

Laboratory Practice. (Advanced.) DM. (4)
At 10:30

Prerequisites: Differential and Integral Calculus.

Winter Quarter.

HEAD PROFESSOR MICHELSON.

***Research Course.** DMM. (1)

***Special Graduate Course.** 3 (DM (or DMM.) (2)
Prerequisite: Advanced Course in General Physics.

HEAD PROFESSOR MICHELSON AND ASSISTANT PROFESSOR STRATTON.

General Physics. (Advanced.) DM. (3) At 2:00
Laboratory Practice. (Advanced.) DM. (4)

At 1:30
Prerequisites: Differential and Integral Calculus.

ASSISTANT PROFESSOR STRATTON.

Electrical Measurements. DM. At 1:30
Prerequisites: General Physics. (Advanced).

Spring Quarter. Revised.

HEAD PROFESSOR MICHELSON.

***Research Course.** DMM. (1) At 1:30

***Special Graduate Course.** DM (or DMM.) (2)
At 11:30

Prerequisites: Advanced Course in General Physics.

HEAD PROFESSOR MICHELSON AND ASSISTANT PROFESSOR STRATTON.

General Physics. (Advanced.) DM. (3) At 10:30
Prerequisites: Differential and Integral Calculus.

Laboratory Practice. (Advanced.) DM. (4)
At 2:00

XIX. CHEMISTRY.

K.

Special fees will be charged to students taking Laboratory Courses in Chemistry as follows:

\$5.00 a quarter for a Double Minor Course.

\$10.00 a quarter for a Double Major Course.

In no case, however, shall a student, taking several courses in Chemistry, be charged more than \$10.00 a quarter.

Autumn Quarter.

PROFESSOR NEF.

Organic Chemistry. DM. (6) At 11:30
Prerequisites: General Chemistry and Qualitative Analysis.

Organic Preparations: Laboratory Work. DM. (or DMM.) (12)

Prerequisite: Qualitative and Quantitative Analysis and Organic Chemistry. (It may be taken simultaneously in connection with lectures on Organic Chemistry. Those intending to pursue research work in Inorganic Chemistry will be required to take this course as a triple Minor, and those intending to pursue research work in Organic Chemistry will be required to take the course as a triple Major).

***Research Work for Ph.D. Thesis.** Laboratory work. DMM. (14)
Journal Meetings. (15)

ASSISTANT PROFESSOR STOKES.

General Chemistry. Introductory Course continuing through three quarters. DM. (1)

Monday and Tuesday at 11:30

Prerequisite: Academic College Course in Physics.

Advanced Inorganic Work. DM. (or DMM.) (10)

Prerequisites: Qualitative and Quantitative Analysis, Theoretical Chemistry, Mineralogy and a reading knowledge of French and German. Those intending to pursue research work in Organic Chemistry will be required to take this course as a triple Minor, those intending to engage in Inorganic Research will be required to take the course as a triple Major.

***Research Work for Ph.D. Thesis.** (Inorganic). DMM. (14)

ASSISTANT PROFESSOR SCHNEIDER.

Qualitative Analysis. Laboratory Work. DM. (or DMM.) (4)

Prerequisite: General Chemistry.

Quantitative Analysis. Laboratory Work. DM. (or DMM.) (5)

Prerequisite: Qualitative Analysis.

***Research Work for Ph.D. Thesis.** (Inorganic). DMM. (14)

DR. LENGFELD.

***Theoretical Chemistry.** Lectures. Two $\frac{1}{2}$ M. (9)
Tuesday and Friday at 8:30

***Research Work for Ph.D. Thesis.** DMM. (14)

DR. STIEGLITZ.

***Organic Nitrogen Derivatives.** $\frac{1}{2}$ DM. (20)

Monday and Thursday at 8:30

Prerequisite: Organic Chemistry.

***Research Work for Ph.D. Thesis.** DMM. (14)

Winter Quarter.

PROFESSOR NEF.

Organic Chemistry. DM. (6) At 11:30

Prerequisites: General Chemistry and Qualitative Analysis.

Organic Preparations. Laboratory Work. DM. (or DMM.) (12)

For Prerequisites see Course 12, Autumn Quarter.

***Research Work for Ph.D. Thesis. Laboratory Work.** DM. (14)

Journal Meetings.

ASSISTANT PROFESSOR SCHNEIDER.

Advanced Inorganic Work. DM. (or DMM.) (10)
For Prerequisites and requirements see Course 10, Autumn Quarter.

Qualitative Analysis. Laboratory Work. DM. (or MM.) (4)

Prerequisite: General Chemistry.

Qualitative Analysis. Lectures. $\frac{1}{2}$ DM. (3a)
Thursday and Friday 2:00 to 3:00

Prerequisite: General Chemistry.

Quantitative Analysis. Laboratory Work. DM. (or MM.) (5)

Prerequisite: Qualitative Analysis.

***Research Work for Ph.D. Thesis.** (Inorganic). DMM. (14)

DR. STIEGLITZ.

Qualitative Spectrum Analysis. Laboratory Work and Lectures. $\frac{1}{2}$ DM. (16)

Wednesday and Saturday at 8:30

Prerequisite: General Chemistry.

Advanced Inorganic Work. DM. or DMM. (10a)

For Prerequisites and requirements see course 10, Autumn Quarter.

***The Carbohydrates and the Complex Hydrocarbons.** $\frac{1}{2}$ DM. (21)

Monday and Thursday at 8:30

***Research Work for Ph.D. Thesis.** DMM. (14)

DR. LENGFELD.

General Chemistry (continued.) Introductory Course. DM. (1).

Monday, Tuesday and Wednesday at 11:30 and Laboratory Monday and Tuesday, 2:00 to 5:00

Prerequisites: Academic College Course in Physics, and Course 1 in Autumn Quarter.

Theoretical Chemistry. $\frac{1}{2}$ DM. (9)

Tuesday and Friday at 8:30

***History of Chemistry.** $\frac{1}{2}$ DM. (18)

Wednesday and Thursday at 9:30

***Research Work for Ph.D. Thesis.** DMM. (14)

Spring Quarter. Revised.

PROFESSOR NEF.

Organic Chemistry. M. 1st Term. (6)

Thursday, Friday, Saturday, At 11:30

Organic Preparations. Laboratory Work. M. (or MM.) 1st Term. (12)

For Prerequisites see Autumn Quarter.

***Research Work for Ph.D. Thesis.** MM. (14)
1st Term.

Journal Meetings. Fridays, At 8:00-10:00 P.M.

ASSISTANT PROFESSOR SCHNEIDER.

Advanced Inorganic Work. DM. (or DMM.) (10)
For Prerequisites and requirements see Course 10,
Autumn Quarter.

Qualitative Analysis. Laboratory Work. DM. (or
MM.) (4)
Prerequisite: General Chemistry.

Qualitative Analysis. Lectures. $\frac{1}{2}$ DM. (3a)
Thursday and Friday, At 2:00
Prerequisite: General Chemistry.

Quantitative Analysis. Laboratory Work. DM.
(or MM.) (5)
Prerequisite: Qualitative Analysis.

* **Research Work for Ph.D. Thesis.** (Inorganic.)
DMM. (14)

DR. STIEGLITZ.

* **Research Work for Ph.D. Thesis.** DMM. (14)
Advanced Inorganic Work. M. (or MM.) 2d Term,
(10a)
For Prerequisites and requirements see Course
10, Autumn Quarter.

DR. LENGFELD.

General Chemistry (continued.) DM. (1)
Prerequisites: Academic College Course in
Physics, and Course 1 in Autumn and Winter
Quarters.

* **Theoretical Chemistry.** $\frac{1}{2}$ M. 1st Term. (9)

* **Research Work for Ph.D. Thesis.** DMM. (14)

DR. CURTISS.

On the Aromatic Compounds. $\frac{1}{2}$ DM.
Thursdays and Saturdays, At 8:30

Summer Quarter.

PROFESSOR NEF.

Special Chapters of Organic Chemistry. $\frac{1}{2}$ M. 2d
Term. (22) . Fridays and Saturdays, At 11:30

* **Research Work for Ph.D. Thesis.** MM. 2d
Term. (14)

ASSISTANT PROFESSOR SCHNEIDER.

Special Chapters of Inorganic Chemistry. $\frac{1}{2}$
DM. (17) . Thursdays and Fridays, At 2:00
Prerequisite: General Chemistry.

Qualitative Analysis. Laboratory Work. DM.
(or DMM.)
Prerequisite: General Chemistry.

Quantitative Analysis. Laboratory Work. DM.
(or DMM.)
Prerequisite: Qualitative Analysis.

Advanced Inorganic Work. DM. (or DMM.) (10)
Prerequisites: See Course 10, Autumn Quarter.

* **Research Work for Ph.D. Thesis.** (Inorganic.)
DMM. (14)

DR. LENGFELD.

General Inorganic Chemistry. DMM. (8)
Mondays and Thursdays, At 11:30
Mondays and Wednesdays, 2:00-5:00

Physico-Chemical Methods. $\frac{1}{2}$ M. 2d Term. (19)
At 8:30

* **Research Work for Ph.D. Thesis.** DMM. (14)

DR. STIEGLITZ.

General Organic Chemistry. DMM. (7) At 8:30
Organic Preparations. DM. (or DMM.) (13)

For Prerequisites see Course 21, Autumn Quarter.

* **Research Work for Ph.D. Thesis.** DMM. (14)

XX. GEOLOGY.

W.

Seminar. Fortnightly during the year, under the
presidency of the Head of the Department,
aided by the departmental faculty. (25)

Autumn Quarter.

HEAD PROFESSOR CHAMBERLIN.

* **Principles and Working Methods of Geology.**
DM. (or MM.) (22) At 10:30

Prerequisites: General Geology, Elements of
Mineralogy and Petrology.

Local Field Geology. (24)

Special Geology. (23)

PROFESSOR SALISBURY.

Geographic Geology. DM. (or MM.) (10) At 11:30

Local Field Geology. (24)

ASSOCIATE PROFESSOR IDDINGS.

Crystallography. M. 1st Term. (2) At 9:30
Prerequisites: Physics and Inorganic Chem-
istry.

Physical Mineralogy. M. 2d Term. (3) At 9:30
Prerequisite: Course 2.

Petrography. DM. (or MM.) (6) At 2:00
Prerequisites: Courses (2) and (3).

MR. KUMMEL.

Laboratory Work in Geographic Geology. M. 2d
Term. (11)

Winter Quarter.

HEAD PROFESSOR CHAMBERLIN.

* **Principles and Working Methods of Geology.**
DM. (or MM.) (22) At 10:30

Prerequisites: General Geology, Elements of
Mineralogy and Petrology.

Special Geology. (23)

PROFESSOR SALISBURY.

Structural Geology and Continental Evolution.
DM. (or MM.) (12). At 11:30
Prerequisites: Elementary Mineralogy and Petrology, Chemistry and Physics, and Geology course (10).

Dynamic Geography. MM. (or M.) (13)
General Geology. DM. (9)

ASSOCIATE PROFESSOR IDDINGS.

Descriptive Mineralogy. DM. (4)
Prerequisites: Courses (2) and (3).

Petrography. DMM. (or DM.) (6)
Prerequisites: Courses (2) and (3).

ASSOCIATE PROFESSOR PENROSE.

***Economic Geology.** DM. (14)
Prerequisites: Geology, Mineralogy, Chemistry, and Physics.

Chemistry of Ore Deposits. DM. (15)
Prerequisite: Course (14).

PROFESSOR VAN HISE.

Pre-Cambrian Geology. M. 1st Term. (19)
Laboratory Course in Connection with Pre-Cambrian Geology. M. 1st Term. (20)

DR. QUEREAU.

Morphological Types, considered especially from a palæontological standpoint. Lectures and laboratory work. MM. (or M.) 1st Term. (18b)
Prerequisites: Zoölogy, Botany.

Palæozoic Faunas. Lectures and laboratory work. MM. (or M.) 2d Term. (18c)
Prerequisites: Zoölogy, Botany, Elements of General Geology.

DR. MERRIAM.

Mesozoic Palæontology. Lectures and laboratory work. MM. (or M.) 2d Term. (18d)
Prerequisites: Biology, General Geology.

Spring Quarter. Revised.

HEAD PROFESSOR CHAMBERLIN.

Seminar (continued). (25) Tuesdays at 4:00
Geologic Life Development. DM. (16) At 10:30
Prerequisites: Zoölogy, Botany, Course (12) or (9) Geology.

Local Field Geology (continued). (24)
Special Geology (continued). (23)

ASSOCIATE PROFESSOR IDDINGS.

Petrology. DM. (5) At 9:30
Prerequisites: Courses (2) and (3) Geology.

***Petrography.** DM. (or MM.) (6) At 11:30

DR. QUEREAU.

Palæozoic Faunas (continued). DMM. (or DM.) (18c) At 4:00

Summer Quarter.

PROFESSOR SALISBURY.

Geographic Geology (at the University). M. (or MM.) 1st Term. (26a) At 9:30

Prerequisites: Physiography, Elementary Geology, Elementary Physics, and Chemistry.

Field Geology. (Selected localities in the field, centering about Devil's Lake, Wisconsin.) 2d Term. DMM. (26b)

Prerequisites: Course (26a) or its equivalent.

XXI. BOTANY.

No courses in this Department will be given during 1893-4.

XXII. ZOÖLOGY.

K.

Autumn Quarter.

HEAD PROFESSOR WHITMAN.

***Embryology. Higher Invertebrates.** DMM. (1) At 3:00

Prerequisites: The introductory Courses in Embryology, Anatomy, and Histology.

***Seminar. Historical Topics.** DM. (3)

MR. LILLIE.

Vertebrate Embryology. DMM. (4)

Prerequisites: General Biology, outlines of Vertebrate Zoölogy, Palæontology, Histology.

DR. WATASE.

Cellular Biology. Lectures and Demonstrations. To be given at the Biological Club. (7)

Winter Quarter.

HEAD PROFESSOR WHITMAN.

***Embryology. Higher Invertebrates (continued).** DMM. (1) At 3:00

For prerequisites see Autumn Quarter.

*Seminar. Historical Topics (continued). DM. (3)

MR. LILLIE.

Vertebrate Embryology (continued). DMM. (4)
At 10:30

For Prerequisites see Autumn Quarter.

DR. WATASE'.

Cellular Biology (continued). Lectures and demonstrations. To be given at the Biological Club.
(7)

DR. JORDAN.

Special Bacteriology. DMM.
Prerequisites: General Biology, Sanitary Biology.

Spring Quarter. Revised.

HEAD PROFESSOR WHITMAN.

*Embryology. Tectonics of the Vertebrate Embryo.
DMM. (2) At 4:00

Prerequisites: The introductory courses in Morphology.

DR. JORDAN.

Sanitary Biology. DM. (6)

Prerequisite: Chemistry.

Special Bacteriology (continued). DMM.
At 8:30-12:30 and 2:30-4:30

Prerequisites: General Biology, Sanitary Biology.

Biological Readings. ½DM. At 2:00

Prerequisites: General Biology, German and French.

DR. WATASE'.

Cellular Biology (continued). Lectures and demonstrations. To be given at the Biological Club.
(7) At 3:00

Anatomy and Physiology of Cell. DM.
At 10:30

Prerequisites: General Biology, Histology, and Embryology.

Summer Quarter.

HEAD PROFESSOR WHITMAN.

Marine Biology at the Marine Biological Laboratory, Wood's Holl.

PALÆONTOLOGY.

Autumn Quarter.

ASSISTANT PROFESSOR BAUR.

Outlines of Vertebrate Zoölogy and Palæontology.
M. (8) At 11:30

*Research in the Osteology of Living and Extinct Vertebrates. DMM. (11)

Prerequisites: Comparative Osteology and Phylogeny of Vertebrates.

Winter Quarter.

ASSISTANT PROFESSOR BAUR.

*Comparative Osteology and Phylogeny of Vertebrates. DM in connection with Course 10. (9)

At 11:30

Prerequisites: Vertebrate Zoölogy, Anatomy, Embryology, Geology.

*Seminar in Comparative Osteology. DM in connection with Course 9. (10)

*Research in the Osteology of Living and Extinct Vertebrates. DMM. (11).

For Prerequisites see Autumn Quarter.

Spring Quarter. Revised.

ASSISTANT PROFESSOR BAUR.

*Comparative Osteology and Phylogeny of Vertebrates. DM in connection with Course 10. (9)

At 11:30

*Seminar in Comparative Osteology. DM in connection with Course 9. (10) At 3:00

*Research in the Osteology of Living and Extinct Vertebrates. DMM. (11) 8:30-12:30
2:00-4:00

Summer Quarter.

ASSISTANT PROFESSOR BAUR.

Palæontological Field Work. (12)

XXIII. ANATOMY AND HISTOLOGY.

K.

Winter Quarter. Revised.

MR. EYCLESYMER.

General Histology of Animals. DM. (1) At 2:00

Spring Quarter.

MR. EYCLESYMER.

Research Methods. DM. (4) At 2:00

Summer Quarter.

MR. EYCLESYMER.

Research Methods. DM. (repeated) (4) At 2:00

XXIV. PHYSIOLOGY.

R.

Autumn Quarter.

ASSISTANT PROFESSOR LOEB.

- *Original Investigation in Physiology. DMM. (1)
 Physiology of the Sense Organs and the Peripheral and Central Nervous System. DM. (2)
 At 9:30
 Laboratory Work in Physiology of the Sense Organs and the Nervous System. In connection with Course 4. (3)
 Seminar. In connection with Course (3). (4)

NOTE.—Courses 3 and 4 taken together form an advanced course in Physiology (Double Minor). With the permission of the Instructor they may be taken together by students of Course 2 as a Double Major.

Winter Quarter.

ASSISTANT PROFESSOR LOEB.

- *Original Investigation in Physiology (continued). DMM. (1) At 9:30
 Physiology of Circulation, Respiration, and Animal Heat. DM. (5) At 4:30
 Prerequisite: Course 2.
 Laboratory Work in the Physiology of Circulation, Respiration and Animal Heat. (6)
 Seminar: in connection with Course (6). Together with Course 6. DM. (7)
 Prerequisites: Courses 3 and 4.

DR. LINGLE.

- Introductory Physiology. DM. (13) At 2:00

Spring Quarter. Revised.

ASSISTANT PROFESSOR LOEB.

- *Original Investigation in Physiology (continued). DMM. (1) At 9:30
 General Physiology of Animals and Plants. Lectures in connection with Course (10). (9) At 10:30
 General Physiology of Nerves and Muscles. Together with Course 9. DM. (10) At 10:30
 Laboratory Work in Physiology of Nerves and Muscles and in General Physiology. (11)
 Tuesdays and Fridays 2:00-4:00
 Seminar: in connection with Course 11. Together with Course 11. DM. (12)
 Wednesday at 2:00-4:00
 Prerequisites: Courses (4) and (3).

DR. LINGLE.

General Laboratory Work in Physiology.

Monday, Wednesday, and Thursday at 2:00-5:00

Summer Quarter.

DR. LINGLE.

- Physiology of Digestion, Secretion, and Metabolism. DM. (or DMM). (8) Lectures and Laboratory work.
 Prerequisites: Courses (2) and (5).

XXV. NEUROLOGY.

K 45.

Autumn Quarter.

PROFESSOR DONALDSON.

- The Architecture of the Central Nervous System. DM. (1) At 8:30
 Prerequisite: General Histology.
 *Seminar. DM. (6) At 8:30

Winter Quarter.

PROFESSOR DONALDSON.

- Anatomy of the Special Sense Organs. M. 1st Term. (2). At 8:30
 Prerequisite: General Histology.
 Physical Characters of the Brain as related to the Intelligence. M. 2d Term. (3) At 8:30
 Prerequisite: General Histology.
 *Seminar. DM. (6) At 9:30

Spring Quarter. Revised.

PROFESSOR DONALDSON.

- Doctrine of Localization of Function in the Cerebral Cortex. DM. (4) Thursday at 8:30
 Prerequisites: Histology and Elementary Physiology.
 *Seminar. DM. (6) Friday at 8:30

DR. MEYER.

- Twelve Lectures with demonstrations
 Friday at 3:00-5:00
 An introduction to Comparative Anatomy of the central nervous system.

Summer Quarter.

PROFESSOR DONALDSON.

The Development of the Central Nervous System.

DM. (5) At 8:30

Prerequisites: Histology and Embryology.

* Seminar. DM. (6)

Winter Quarter.

MR. CLARK.

Writing and Delivery of Original Orations, Analysis and Reading of Macbeth. M. (3)

MESSRS. HILL, LOVETT, AND CLARK.

Oral Debates. (II 4)*Spring Quarter. Revised.*

MR. CLARK.

Advanced Elocution. Repeated. M. (21)

Tuesday and Friday at 2:00

XXVI. ELOCUTION.

Autumn Quarter.

MR. CLARK.

Advanced Elocution. 2 hrs. a week. M. (2).

ANNOUNCEMENTS FOR THE ACADEMIC COLLEGES.

The following is a list of the titles of courses to be offered in the Academic Colleges from October, 1893, to October, 1894. For full description of courses consult the ANNUAL REGISTER or the DEPARTMENTAL PROGRAMMES. The number of each course in the REGISTER is indicated by the figure in parentheses following the title.

Full Announcements for the Summer Quarter (1894) will be made in the May CALENDAR.

REGISTRATION.—Students in residence must register for the Spring Quarter on or before March 8. The registration card will be filled out in consultation with the Dean. The Dean may be consulted at his Office Hours.

Students entering the University for the first time or resuming work after an absence of a Quarter or a Term must register on or before April 2, 1894. Registration after this day may be secured only, (1) by special permission granted by the Dean, and (2) after the payment of a special fee of five dollars.

II. POLITICAL ECONOMY.

C 3-8.

Autumn Quarter.

PROFESSOR A. C. MILLER.

Principles of Political Economy. DM. (1) At 8:30.
Open only to students who elect 1A or 1B in the Winter Quarter.

Winter Quarter.

NOTE.—Either 1A or 1B is required of students who took Course 1 in the Autumn Quarter.

PROFESSOR A. C. MILLER.

Advanced Political Economy. DM. (1A) At 8:30

MR. CALDWELL.

Descriptive Political Economy. DM. (1B) At 8:30

MR. HILL.

Industrial and Economic History. DM. (2)
At 9:30

III. POLITICAL SCIENCE.

C. 1, 9, 10, 12.

Spring Quarter.

MR. CONGER.

Geography of Europe. An Introduction to the History of Europe. DM. (16). At 11:30

Summer Quarter.

MR. CONGER.

Geography of Europe. An Introduction to the History of Europe. DM. (16, repeated). At 11:30

IV. HISTORY.

C 5-8.

Autumn Quarter.

ASSISTANT PROFESSOR THATCHER.

Outline History of the Middle Ages. DM. (47)
At 10:30

DR. SCHWILL.

Outline History of Modern Europe. DM. (48)
At 3:00

Prerequisite: Course 47.

Winter Quarter.

ASSISTANT PROFESSOR THATCHER.

Outline History of the Middle Ages. DM. (47, repeated).
First section At 10:30
Second section At 11:30

DR. SCHWILL.

Outline History of Modern Europe. DM. (48 repeated).
At 3:00

Prerequisite: Course 47.

Spring Quarter. Revised.

ASSISTANT PROFESSOR THATCHER.

Outline History of the Middle Ages. DM. (47, repeated).
At 10:30

DR. SCHWILL.

Outline History of Modern Europe. DM. (48, repeated).
At 3:00

Prerequisite: Course 47.

DR. KENT.

Outline of Hebrew History. (See Semitic Languages, course 33).
At 11:30

MR. CONGER.

Political Geography of Europe. (See Political Science, Course 16).

NOTE.—Courses 47 and 48 are required of all students who intend to present themselves as candidates for the Bachelor's degree. They are accordingly repeated each Quarter.

X. THE GREEK LANGUAGE AND LITERATURE.

B 2-8.

Autumn Quarter.

PROFESSOR SHOREY.

Homer. DM. (7) At 10:30
Open to Academic College Students who have completed two or more Majors with credit.

ASSOCIATE PROFESSOR TARBELL.

Two Plays of Euripides. DM. (4) At 9:30

ASSISTANT PROFESSOR CASTLE.

Xenophon (Memorabilia); Plato (Apology and Crito). DMM. (2) At 8:30 and 3:00

Winter Quarter.

MR. W. B. OWEN.

Homer (Iliad, Books I-III); Review of Greek Grammar. DM. (1) At 11:30
Intended for students entering with Greek (1) and (2) only. This course will not be counted as one of the three required Majors in Greek.

Spring Quarter. Revised.

PROFESSOR SHOREY.

Introduction to Study of the Greek Drama. DM. (17) At 10:30
Open to Academic College Students who have completed two or more Majors with credit.

Greek Reading Club. (Voluntary). Once a week, October to June. (24) Tuesdays at 4:00

ASSISTANT PROFESSOR CASTLE.

Lysias. (Selected Orations). **Exercises in the Writing of Greek.** DM. (3) At 9:30
Not open to students who take Course 2.

Homer. Selections from the Odyssey. DM. (5) At 10:30

Summer Quarter.

MR. W. B. OWEN.

Xenophon. (Memorabilia); **Plato** (Apology and Crito). DMM. (2) At 8:30 and 3:00

XI. THE LATIN LANGUAGE AND LITERATURE.

B 2-8.

Autumn Quarter.

DR. MILLER.

Horace (Odes); Wilkins's Primer of Roman Literature. Section 1. DM. (8a) At 9:30

Horace (Odes); Wilkins's Primer of Roman Literature. Section 2. DM. (8b) At 11:30

MR. EMERY.

Cicero (de Senectute); Livy (Books xxi and xxii); Terence (Phormio); Tacitus (Germania and Agricola). Section 1. DMM. (3b) At 8:30 and 3:00

MR. ———.

Cicero (de Senectute); Livy (Books xxi and xxii); Terence (Phormio); Tacitus (Germania and Agricola). Section 2. DMM. (3a) At 8:30 and 3:00

Winter Quarter.

DR. MILLER.

Horace (Odes); Wilkins's Primer of Roman Literature. DM. (8c) At 10:30

Horace (Satires); Seneca (Tragedies). DM. (9) At 11:30

Open only to students who have completed the required three Majors in Latin.

MR. EMERY.

Cicero (de Senectute); Livy (Books xxi and xxii); Terence (Phormio); Tacitus (Germania and Agricola). Section 2. DMM. (3c) At 8:30 and 3:00

MISS PELLETT.

Virgil (Æneid); Cicero (Orations). DMM. (1) At 8:30 and 3:00
Open only to students in the Course in Science.

Spring Quarter. Revised.

DR. MILLER.

Cicero (de Senectute); Livy (Books xxi and xxii); Terence (Phormio); Tacitus (Germania and Agricola). Section 1. DMM. (3d) At 8:30 and 3:00

MR. EMERY.

Horace (Satires). DM. (9) At 11:30
Open only to students who have completed three majors in Latin.

Selections from Ovid, Horace, Catullus, and Cicero's Letters. DM. (2a) At 8:30
Open only to students in the Course in Science, who have already taken Course 1.

Summer Quarter.

DR. MILLER.

- Cicero** (de Senectute); the Writing of Latin. M.
1st Term. (4) At 9:30
Terence. M. 1st Term. (5) At 10:30

MR. ———.

- Livy**; the Writing of Latin. M. 2d Term. (6)
At 9:30
Horace (Odes). M. 2d Term. (7) At 10:30

NOTE.—All Courses are required excepting Course 9, Winter and Spring Quarters.

XII. ROMANCE LITERATURE AND PHILOLOGY.

B 12-16.

Autumn Quarter.

DR. KINNE.

- Selections from Erckmann-Chatrion, etc.** DMM.
(28) At 8:30 and 3:00
French Grammar; Knapp's French Readings (for
beginners). DM. (29) At 3:00

MISS WALLACE.

- Knapp's Spanish Grammar.** DM. (9) At 9:30

Winter Quarter.

DR. KINNE.

- Knapp's French Readings continued; French
Grammar continued.** DMM. (30)
At 8:30 and 2:00
Selections from Musset, Lamartine, etc. DMM.
(31) At 8:30 and 3:00

MISS WALLACE.

- Knapp's Spanish Readings.** DM. (10, continued).
At 9:30

Spring Quarter. Revised.

DR. KINNE.

- French Grammar; Knapp's French Readings** (for
beginners). DMM. (29, repeated).
At 8:30 and 3:00
A Course in Rapid Reading. DM. (30) At 9:30
Prerequisite: Course (29) or its equivalent.
(Elementary French, as in *Circular of Informa-
tion*, p. 16, is accepted as such equivalent).

MISS WALLACE.

- Spanish Readings.** DM. (11, continued). At 9:30

Summer Quarter.

DR. KINNE.

- French Grammar; Knapp's French Readings** (for
beginners). DMM. (29, repeated).
At 8:30 and 3:00
A Course in Rapid Reading. DM. (30, repeated).
At 9:30
Prerequisite: Course (29) or its equivalent, as
above.

NOTE.—Dr. Kinne's Courses will be repeated each Quarter.

XIII. THE GERMANIC LANGUAGES AND LITERATURES
B 9-11.*Autumn Quarter.*

ASSISTANT PROFESSOR CUTTING.

- Modern Prose.** DM. (19a) At 8:30
For students who have passed the entrance
examination in Elementary German.
Prerequisite: Course (17), or its equivalent.

DR. SCHMIDT-WARTENBERG.

- Outline Study of Goethe's Works.** DM. (23)
At 3:00
For students who have passed the entrance
examination in Advanced German.

DR. VON KLENZE.

- German Lyrics.** DM. (21) At 2:00
For students who have passed the entrance
examination in Advanced German.

MR. MULFINGER.

- Elementary Course in German.** DMM. (17)
At 8:30 and 3:00
Required of all Academic College students
who entered without German.

Winter Quarter.

ASSISTANT PROFESSOR CUTTING.

- German Comedies.** DM. (20) At 9:30
For students who have passed the examination
in Elementary German.
Prerequisite: Course (19a), or its equivalent.

MR. MULFINGER.

- Elementary Course.** DMM. (17) At 8:30 and 3:00
Required of all Academic College students
who entered without German.
Intermediate Course. DM. (18) At 11:30
Prerequisite: Course (17), or its equivalent.

Spring Quarter. Revised.

DR. SCHMIDT-WARTENBERG.

Modern Prose. DM. (19b) At 2:00

For students who have passed the entrance examination in Elementary German.

Prerequisite: Course (20), or its equivalent.

German Prose Composition. M. 2nd Term. (22) At 4:00

For students who have passed the entrance examination in Elementary German.

Prerequisite: Course (24), or its equivalent.

Boisen's Preparatory Book of German Prose. M. 1st Term. (24) At 11:30

For students who have passed the entrance examination in Elementary German.

Prerequisite: Course (17), or its equivalent.

Summer Quarter.

ASSISTANT PROFESSOR CUTTING,

German Lyrics. DM. (21) At 9:30

For students who have passed the entrance examination in Advanced German.

DR. VON KLENZE.

Modern Prose. DM. (19c) At 2:00

For students who have passed the entrance examination in Elementary German.

Prerequisite: Course (19b), or its equivalent.

MR. MULFINGER.

Elementary Course. DMM. (17) At 8:30 and 3:00

Required of all Academic College students who entered without German.

XIV. THE ENGLISH LANGUAGE AND LITERATURE,
AND RHETORIC.

K.

Autumn Quarter.

ASSISTANT PROFESSOR TOLMAN.

English Literature. DM. (10) At 8:30

Prerequisite: Course (1).

Required of all Academic College students.

English Romantic Poetry. DM. (18) At 9:30

Prerequisite: Course (10)

MR. LOVETT.

English Composition. Advanced Course. DM. (2) Elective. At 9:30

Prerequisite: Course (1).

MESSRS. HERRICK, LOVETT, AND LEWIS.

Rhetoric and English Composition. DM. (1)

Required of all students in the Academic Colleges. Course (1) must be taken immediately after entrance.

(1 A) Class-room instruction, short themes, and exercises for one Quarter. At 2:00

(1 B) Themes to follow (1 A) for two Quarters. Attendance at consultation hours required:

(1 C) Twelve papers of a minimum length of 400 words are required of each student during the last three Quarters of his course in the Academic Colleges.

Material for such papers should be obtained from the student's work in other departments. Lectures in English Composition, at which attendance is voluntary, will be given at intervals. Consultation with the instructors is required. [Course 1 C will be given during the Autumn, Winter, and Spring Quarters after Oct. 1, 1894.]

MR. TRIGGS.

English Literature of the 19th Century. The Poetry of Robert Browning. DM. (20)

At 11:30

Winter Quarter.

ASSISTANT PROFESSOR TOLMAN.

English Literature. DM. (10, repeated). At 9:30

Required of all Academic College students.

Prerequisite: Course (1).

MESSRS. HERRICK, LOVETT, AND LEWIS.

Rhetoric and English Composition. DM. (1)

Required of all students of the Academic Colleges. Course (1) must be taken immediately after entrance.

(1 A) Class-room instruction, short themes and exercises for one Quarter. At 2:00

(1 B) Themes to follow (1 A) for two Quarters. Attendance at consultation hours required:

Sec. a, Mondays, 11:30.

Sec. b, Wednesdays, 2:00.

Sec. c, Saturdays, 9:30.

(1 C) Twelve papers of a minimum length of 400 words are required of each student during the last three Quarters of his course in the Academic Colleges.

Material for such papers should be obtained from the student's work in other departments. Lectures in English Composition, at which attendance is voluntary, will be given at intervals. Consultation with the instructors is required. [Course (1C) will be given during the Autumn, Winter, and Spring Quarters after Oct. 1, 1894.]

MR. TRIGGS.

English Literature of the 19th Century. The Poetry of Tennyson and Arnold. DM. (21) At 11:30
Prerequisite: English (10).

Spring Quarter. Revised.

ASSISTANT PROFESSOR TOLMAN.

English Literature. DM. (10, repeated). 9:30
Required of all Academic College students.
Prerequisite: Course (1).

MESSRS. HERRICK, LOVETT, AND LEWIS.

Rhetoric and English Composition. DM. (1)

Required of all students of the Academic Colleges. Course (1) must be taken immediately after entrance.

(1A) Class-room instruction, short themes, and exercises for one Quarter. At 2:00.

(1B, continued. Themes to follow (1A) for two Quarters. Attendance at consultation hours required.

Wednesday, 1:30 and 4:00.

(1C) Twelve papers of a minimum length of 400 words are required of each student during the last three Quarters of his course in the Academic Colleges.

Material for such papers should be obtained from the student's work in other departments. Lectures in English Composition, at which attendance is voluntary, will be given at intervals. Consultation with the instructors is required. [Course (1C) will be given during the Autumn, Winter, and Spring Quarters after Oct. 1, 1894.]

MR. HERRICK.

An Historical Outline of English Prose Literature from Dryden to Goldsmith. DM. (30) At 3:00
Prerequisites: Courses (1) and (10).

MR. LOVETT.

English Composition. DM. (2, repeated). At 9:30
Prerequisites: Courses (1A) and (1B.)
[Students who elect Course 2 are excused from Course 1C.]

Argumentative Composition. DM. (3) At 8:30
Prerequisites: Courses (1A) and (1B).

MR. TRIGGS.

English Literature of the 19th Century. Emerson, Thoreau, Lowell, and Whitman. DM. (22) At 11:30
Prerequisite: Course (10).

Summer Quarter.

MR. _____.

English Literature. DM. (10, repeated). At 9:30
Required of all Academic College Students.
Prerequisite: Course (1).

MESSRS. HERRICK, LOVETT, AND LEWIS.

Rhetoric and English Composition. DM. (1, repeated).

Required of all students in the Academic Colleges. Course (1) must be taken immediately after entrance.

(1A) Class-room instruction, short themes, and exercises for one Quarter. At 2:00.

XV. BIBLICAL LITERATURE IN ENGLISH.

D 10-16.

Autumn Quarter.

MR. VOTAW.

History of New Testament Times. DM. (B.1) At 9:30

Winter Quarter.

MR. VOTAW.

The Life of Christ. DM. (B.2) At 2:00

Spring Quarter. Revised.

DR. KENT.

Outline of Hebrew History. DM. At 11:30
Messianic Prophecy. M. 2d Term. At 10:30

MR. WOODRUFF.

The Gospel of Luke on the Basis of the Revised Version. M. 1st Term. (B.9) At 9:30

Summer Quarter.

MR. VOTAW.

The Gospel of John. M. 1st Term. (B.10).

XVI. MATHEMATICS.

R.

*Autumn Quarter.***Required Mathematics, Course I.**

Two consecutive double minors of mathematics are required of every student in the first year of residence. The topics are *Algebra*, *Plane Trigonometry*, and *Co-ordinate Geometry of the Point, Line, and Circle*.

Sections a, b, and c take the work in the Autumn and Winter Quarters, sections d, e, and f in the Winter and Spring Quarters.

Students wishing to specialize early in Chemistry or Physics should enter section a, b, or c.

If students are allowed to matriculate with entrance conditions in mathematics, they are expected to remove these conditions at the next regular entrance examination, and, until this has been done, they may not take the required college mathematics.

PROFESSOR MOORE.

Plane Analytic Geometry and Differential and Integral Calculus. DM. (5) At 9:30

The mathematical elective for the Academic College. To be continued through three quarters. Autumn quarter; Smith's Conic Sections.

DR. YOUNG.

Required Mathematics. Section c; first quarter.
DM. (1c) At 9:30

DR. BOYD.

Plane Trigonometry. M. 1st Term. (2) At 10:30
Prerequisite: College Algebra.

Spherical Trigonometry. M. 2d Term. (3)
At 10:30

Prerequisites: Solid Geometry and Plane Trigonometry.

DR. BOYD.

Required Mathematics. Section a; first quarter.
DM. (1a) At 9:30

Required Mathematics. Section b; first quarter.
DM. (1b) At 2:00

Winter Quarter.

PROFESSOR MOORE.

Plane Analytic Geometry and Differential and Integral Calculus. DM. (5) At 9:30

Elective, continued. Winter quarter; Byerly's Differential Calculus.

DR. BOYD.

Required Mathematics. Section a; second quarter.
DM. (1a) At 9:30

Required Mathematics. Section b; second quarter.
DM. (1b) At 2:00

Required Mathematics. Section c; second quarter.
DM. (1c) At 10:30

MR. SLAUGHT.

Required Mathematics. Section d; first quarter.
DM. (1d) At 10:30

Required Mathematics. Section e; first quarter.
DM. (1e) At 11:30

MR. SMITH.

Required Mathematics. Section f; first quarter.
DM. (1f) At 2:00

Spring Quarter. Revised.

DR. YOUNG.

Plane Trigonometry. DM. (2b) At 8:30

This course is intended for those students of the Academic College who did one quarter's work in mathematics during the year 1892-3.

Required Mathematics. Section d; second quarter.
DM. (1d) At 10:30

DR. BOYD.

Plane Analytic Geometry and Differential and Integral Calculus. DM. (5) At 9:30

Elective, continued. Spring Quarter; Byerly's Differential Calculus and Byerly's Integral Calculus (indefinite integration).

Required Mathematics. Section f; second quarter.
DM. (1f) At 11:30

MR. SLAUGHT.

Required Mathematics. Section e; second quarter.
DM. (1e) At 11:30

Summer Quarter.

MR. SMITH.

Plane Analytical Geometry. DM. (4b)

Plane Trigonometry. DM. (4a)

XVIII. PHYSICS.

R.

Autumn Quarter.

MR. HOBBS.

Laboratory Practice. (General). DM. (6) At 1:30
Prerequisite: First Quarter of (5)

Winter Quarter.

ASSISTANT PROFESSOR STRATTON.

General Physics. DM. (5) At 8:30
Prerequisite: Plane Trigonometry.

MR. HOBBS.

Laboratory Practice. (General). DM. (6, repeated).
At 1:30
Prerequisite: First Quarter of (5).

Spring Quarter. Revised.

ASSISTANT PROFESSOR STRATTON.

General Physics. DM. (5, continued). At 8:30
Prerequisite: Plane Trigonometry.

MR. HOBBS.

Laboratory Practice. (General). DM. (6, repeated).
At 1:30
Prerequisite: First Quarter of (5).

Summer Quarter.

MR. _____

General Physics. DMM. (7) At 9:30
Prerequisite: Plane Trigonometry.

MR. _____

Laboratory Practice. (General) DM. (6, repeated).
At 1:30
To accompany Course (7).

XIX. CHEMISTRY.

K.

Autumn Quarter.

ASSISTANT PROFESSOR STOKES.

General Chemistry. Introductory Course. DM. (1)
Monday, Tuesday, and Wednesday at 11:30.
A continuous course through three Quarters.
Prerequisites: Courses 5 and 6 in Physics.

Winter Quarter.

DR. LENGFELD.

General Chemistry. Introductory Course. DM. (1
continued). Monday, Tuesday, and Wednesday
at 11:30, and Laboratory Monday, Tuesday and
Wednesday 2:00 to 5:00.
Prerequisite: Course 1 in 1st Quarter.

Spring Quarter. Revised.

DR. LENGFELD.

General Chemistry. Introductory course. DM. (1
continued). At 11:30
Prerequisite: Course 1 in 1st and 2d Quarters.

Summer Quarter.

DR. LENGFELD.

General Inorganic Chemistry. DM. (8) Monday-
Thursday at 11:30. Laboratory work Monday,
Tuesday, and Wednesday, 2:00-5:00.
Prerequisite: Academic College courses in
Physics.

XX. GEOLOGY.

W.

Autumn Quarter.

PROFESSOR SALISBURY.

Physiography. DM. (1) At 9:30

Winter Quarter.

MR. KÜMMEL.

Physiography. DM. (1, repeated). At 9:30

XXII. ZOÖLOGY.

S.

Autumn Quarter.

ASSISTANT PROFESSOR BAUR.

Outlines of Vertebrate Zoölogy and Palæontology.
M. 1st Term. (8) At 9:30

DR. JORDAN.

General Biology. DM. (5) At 10:30
Prerequisites: Elementary Chemistry and
Physics.
Laboratory work, Monday and Tuesday at
2:00-6:00.

Winter Quarter.

DR. JORDAN.

General Biology (continued). DM. (5) At 10:30
Prerequisites: Elementary Chemistry and
Physics.
Laboratory Work. Monday and Tuesday 2:00-5:00

Summer Quarter.

DR. JORDAN.

General Biology. DM. At 9:30
Prerequisites: Elementary Chemistry and
Physics.

XXIV. PHYSIOLOGY.

S.

Winter Quarter.

DR. LINGLE.

Introductory Physiology.

At 2:00

Spring Quarter. Revised.

ASSISTANT PROFESSOR LOEB.

General Physiology of Animals and Plants.

At 10:30

Prerequisites: General Physics, Chemistry,
Introductory Physiology.

XVI. ELOCUTION.

Autumn Quarter.

MR. CLARK.

Theory and Practice. One hour a week during the year. Required of students in 2d year of Academic College. (1)**Advanced Elocution.** 2 hrs. a week. M. (2) Open to the University Colleges and to students who have completed elsewhere work equivalent to Course 1.*Winter Quarter.*

MR. CLARK.

Theory and Practice. One hour a week. (1)**Writing and Delivery of Original Orations, Analysis and Reading of Macbeth.** M. (3)

Prerequisites: Courses 1 and 2.

Spring Quarter. Revised.

MR. CLARK.

Theory and Practice (continued). 6 sections. One hour a week. (1, required).

Tuesday, 8:30, 9:30 and 10:30

Wednesday, 11:30, 2:00 and 3:00

XXVII. PHYSICAL CULTURE.

Class Work in Physical Culture is required of all undergraduate students not excused on account of physical disability, during four half-hours a week. Students are given choice of hour and course. Courses are offered in prescriptive work, general class drills, and athletic training. Each course is so arranged that those who take part in it receive work which tends to symmetrical development.

Students will select their period for class work from the following: Men—8:45, 9:45, 10:45, 11:45 A.M.; 5:15 P.M. Women—11:45 A.M. and 4:15 P.M. for beginners, and 3:15 and 5:15 P.M. for advanced students. Training for any of the University Athletic Teams will be accepted as an equivalent for gymnasium work.

A period lasts one-half hour and comes on Tuesday, Wednesday, Thursday, and Friday of each week. Bulletins containing appointments for physical examination and departmental communications will be posted on the Physical Culture bulletin board.

Six Quarters' work in Physical Culture is required of Academic College students and four Quarters of University College students. Students taking an excessive number of cuts will not be allowed to continue their University work until they shall conform to the requirements.

COURSES OFFERED BY THE FACULTY OF THE DIVINITY SCHOOL.

OCTOBER 1, 1893, TO OCTOBER 1, 1894.

THE GRADUATE DIVINITY SCHOOL.

NOTE.—The following is a list of the titles of courses given in the Divinity School from October 1, 1893, to October 1, 1894.

For a complete description of the courses consult the ANNUAL REGISTER and the DEPARTMENT PROGRAMMES. The number of each course in the REGISTER is indicated by the number in parentheses following the title of the course.

The hours of the exercises will be announced in the Time Schedule of the Divinity School. The days on which exercises are held will be indicated by the instructor.

Abbreviations: A, B, C, D, refer to the floors in Cobb Lecture Hall, beginning with the ground floor as A. The rooms are numbered.

The abbreviations used in the descriptions of the courses are: M—Minor, DM—Double Minor, MM—Major, DMM—Double Major.

REGISTRATION.—Students in residence must register for the Spring Quarter on or before March 8; the registration card may be obtained from the Dean. The student will, (1) write upon the card the titles and numbers of the courses which he desires to take; (2) secure the signatures of the instructors giving these courses together with the endorsement of the head or acting head of the department in which his principal work is done, and (3) deposit the same in the office of the Dean on or before March 8.

Students entering the University for the first time or resuming work after an absence of a Quarter or a Term must register on or before April 2, 1894. Registration after this date may be secured only (1) by special permission granted by the Dean, and (2) after the payment of a special fee of five dollars.

XXX. OLD TESTAMENT LITERATURE AND EXEGESIS.
D 12-16.

The Department Numbers XXX and VII are identical. For additional courses see announcements of Graduate School and Colleges.

VII. SEMITIC LANGUAGES AND LITERATURES.

Autumn Quarter.

HEAD PROFESSOR HARPER.

Later Suras of the Kuran. DMM or DM (65)

Hexateuchal Analysis. DM. (55)

PROFESSOR HIRSCH.

Introduction to Talmudic Literature. M. 1st Term. (34)

Job. M. 1st Term. (40)

Reading of Selected Portions of the Babylonian Talmud. M. 2d Term. (37)

Introduction to the Textual Criticism of the Old Testament. M. 2d Term. (38)

ASSOCIATE PROFESSOR PRICE.

Special Introduction. DM. (30)

Bilingual Babylonian Psalm Literature. M. 2d Term. (77)

Earliest Unilingual Cuneiform Inscriptions. M.
1st Term. (78)

ASSOCIATE PROFESSOR GOODSPEED.

The History of Antiquity. DM or MM. (IV. 1)

DR. CRANDALL.

Sight Translation in Hebrew. DM. (8)

DR. KENT.

Old Testament Wisdom Literature. DM. (31)

Winter Quarter.

HEAD PROFESSOR HARPER.

Arabic Poetry and Inscriptions. DM. (55)

Hebrew Language. DM. (1)

PROFESSOR HIRSCH.

Abodah Zarah. M. 1st Term. (48)

Selected Portions of the Mishna. M. 1st Term. (43)

Coptic. M. 2d Term. (44)

New Testament and Talmudic Analogies. M. 2d Term. (46)

ASSOCIATE PROFESSOR PRICE.

Jeremiah. M. 1st Term. (21)

Isaiah, Chapters XL-LXVI. M. 2d Term. (23)

Biblical Aramaic. DM.

ASSOCIATE PROFESSOR HARPER.

- Beginning Assyrian. DM. (69)
 Advanced Assyrian. DM. (71)
 Beginning Syriac. DM. (88)

DR. CRANDALL.

- Historical Hebrew. M. 2d Term. (4)

DR. KENT.

- Apocryphal Wisdom Literature. DM. (32)

ASSOCIATE PROFESSOR GOODSPEED.

- Biblical History from the Exile to the Christian Era. M. 1st Term. (IV. 2a)

Spring Quarter. Revised.

HEAD PROFESSOR HARPER.

- The Three Legal Codes. M. 1st Term. (13)
 Old Testament Legal Literature. M. 2d Term. (27)
 Seminar in Comparative Semitic Grammar. DM. (94)
 Hebrew Syntax. M. 2d Term.

PROFESSOR HIRSCH.

- Arabic: Thousand and One Nights. DM. (66)
 Advanced Syriac. DM. (50)

ASSOCIATE PROFESSOR PRICE.

- The Books of Samuel. M. 1st Term. (6)
 Modern Discoveries and the Old Testament. M. 1st Term. (56)

ASSOCIATE PROFESSOR GOODSPEED.

- The History of Babylonia and Assyria. M. 2d Term. (IV. 3b)

ASSOCIATE PROFESSOR HARPER.

- Mesopotamian Geography. M. 1st Term. (61)
 Assyrian and Babylonian Life. M. 2d Term. (59)
 Assyrian Letters. M. 1st Term. (75)
 Babylonian Contracts. M. 2d T. (76)
 Early Historical Inscriptions. DM. (72)

DR. CRANDALL.

- Sight Translation in Hebrew. M. 2d Term. (9)
 The Books of Samuel. M. 1st Term. (6)

DR. KENT.

- Outline of Hebrew History. DM.
 Minor Prophets of the Assyrian Period. M. 1st Term.
 Messianic Prophecy. M. 2d Term.

Summer Quarter.

HEAD PROFESSOR HARPER.

- The Minor Prophets of the Babylonian Period. M. 2d Term. (11)

- The Arabic Language. M. 2d Term. (63)
 Advanced Hebrew Grammar. M. 2d Term. (97)

ASSOCIATE PROFESSOR PRICE.

- Hebrew Language. MM. 1st Term. (3)
 Ezekiel. (English) M. 1st Term. (XII. A2)

ASSOCIATE PROFESSOR GOODSPEED.

- Relation of Hebrew and Babylonio-Assyrian History. 2d Term. (IV. 56)
 The Relations of Hebrew and Egyptian History. M. 1st Term. (IV. 5a)
 Islam. DM. (VI. 4)

ASSOCIATE PROFESSOR HARPER.

- Beginning Assyrian. DM. (69)
 Advanced Assyrian. DM. (71)
 The Book of Proverbs. M. 1st Term. (17)
 Micah. M. 2d Term. (14)

DR. CRANDALL.

- Historical Hebrew. M. 2d Term. (5)

XXXI. NEW TESTAMENT LITERATURE AND EXEGESIS.
D 10-16.

The Department Numbers XXXI and VIII are identical.

Autumn Quarter.

HEAD PROFESSOR BURTON.

- The Gospel of Matthew. DM. (8)
 Prerequisite: Course (1) must precede or accompany this course or (2) precede it.
 New Testament Greek. (Grammar.) DM. (1)

NOTE.—This course is intended to furnish linguistic preparation for the exegetical study of the New Testament and is prescribed for all candidates for the degree of B. D. An examination covering the ground of the course will be accepted in lieu of the course.

DR. ARNOLD.

- Patristic Greek.—Justin Martyr; Teachings of the Apostles, Gospel and Revelation of Peter. (Special course.) DM. At 7:30

MR. VOTAW.

- Paul's Corinthian Epistles. M. 2d Term. (14) At 2:00

Winter Quarter.

HEAD PROFESSOR BURTON.

- The Gospel of John. DM. (10)
 Prerequisites: (1) and (8)
 New Testament Quotations from the Old Testament. Part I. The Gospels. DM. (24)

DR. ARNOLT.

History of the Problem of the Synoptic Gospels,
and of the Historical Criticism of the Fourth
Gospel. DM. (25) At 7:30

Spring Quarter. Revised.

DR. ARNOLT.

The Origin and History of the Septuagint and other
Greek Versions of the Old Testament. DM.
(43) At 8:30

MR. VOTAW.

Rapid Translation and Interpretation of Certain
Pauline Epistles. DM. (4) At 10:30

Summer Quarter.

ASSOCIATE PROFESSOR MATHEWS.

The Second Group of the Letters of the Apostle
Paul. With special reference to Galatians. M.
2d Term. (31)

DR. ARNOLT.

New Testament Quotations from the Old Testa-
ment. Part II. The Epistles. M. 1st Term.
(41) At 7:30

Paul's Epistles to the Thessalonians. Introduction
to the first group of Paul's Epistles. M. 2d
Term. (30) At 8:30

New Testament Syntax. Noun, Pronoun, and
Prepositions. M. 2d Term. (3) At 7:30

XXXII. BIBLICAL THEOLOGY.

D 10-12.

NEW TESTAMENT.

Autumn Quarter.

HEAD PROFESSOR BURTON.

Theology of the Synoptic Gospels. DM. (1)
Prerequisites: XXXI. (1 and 8).

XXXIII. SYSTEMATIC THEOLOGY.

D 2-7.

Autumn Quarter.

HEAD PROFESSOR NORTHRUP.

Introduction and Theology Proper. DM. (1)
Required for students who have been in the
School one year.

Soteriology. DM. (4)

Prerequisites: Theology Proper and Anthro-
pology.
For students who have been two years in the
School.

ASSISTANT PROFESSOR SIMPSON.

Apologetics. DM. (2)

Required of students in the first year.

Winter Quarter.

HEAD PROFESSOR NORTHRUP.

Introduction and Theology Proper. DM. (1)

Required of students in the first year.

Spring Quarter. Revised.

HEAD PROFESSOR NORTHRUP.

Anthropology. M. 1st Term. At 9:30

Required of 1st year students.

Anthropology. M. 1st Term. At 11:30

Required of 2d year students.

ASSISTANT PROFESSOR SIMPSON.

Eschatology. M. 1st Term. (5) At 3:00

Elective for students who have completed the
preceding studies of the Theological Course.

XXXIV. CHURCH HISTORY.

D 2-7.

Autumn Quarter.

HEAD PROFESSOR HULBERT.

The English Reformation and Puritanism. DM.
(12)

The Anglican Church. DM. (20)

See Course (12).

Under the Tudors, A.D. 1509-1603. DM. (27)

See Courses (12) and (20).

ASSISTANT PROFESSOR JOHNSON.

Prior to Constantine, A.D. 30-311. DM. (1)

From Boniface VIII. to Luther, A.D. 1294-1517.
DM. (5)

See Course (10).

Preparation for the Protestant Reformation. DM.
(10)*Winter Quarter.*

HEAD PROFESSOR HULBERT.

From Constantine to Theodosius, A.D. 311-395.
DM. (2)

The English Reformation and Puritanism (continued). DM. (12)

Under the Stuarts, A.D. 1603-1688. DM. (28)
See Courses (12) and (20).

ASSISTANT PROFESSOR JOHNSON.

The German Reformation. DM. (11)

The Lutheran Church. DM. (13)
See Course (11).

Spring Quarter. Revised.

ASSISTANT PROFESSOR JOHNSON.

Calvin and the Swiss Reformation. M. 1st Term.
(13) At 10:30

Church Polity, and Pastoral Duties. DM. (4)

Winter Quarter.

HEAD PROFESSOR ANDERSON.

Homiletics. DM. (2)

Required for students in the first year.

PROFESSORS ANDERSON AND JOHNSON.

Plans and Sermons. (1)

Required of 1st, 2d and 3d year men. (A weekly exercise.)

Spring Quarter. Revised.

HEAD PROFESSOR ANDERSON.

History of Preaching. MM. 1st Term (3)

2:00-4:00

XXXV. HOMILETICS, CHURCH POLITY, AND PASTORAL DUTIES.

D. 2-7.

Autumn Quarter.

HEAD PROFESSOR ANDERSON.

Plans and Sermons. (1)

Required of 1st, 2d and 3d year men. (A weekly exercise.)

XV. BIBLICAL LITERATURE IN ENGLISH.

D 10-12.

Courses in this department in the Graduate School and the Colleges, are open to students in the Divinity School.

THE ENGLISH THEOLOGICAL SEMINARY.

THE PRESCRIBED CURRICULUM FOR THE FIRST YEAR.

Autumn Quarter.

ASSOCIATE PROFESSOR PRICE.

The Books of Samuel and Kings. At 2:00.

ASSISTANT PROFESSOR SIMPSON.

Inspiration and Theology Proper. At 3:00.

ASSISTANT PROFESSOR SIMPSON.

Evidences of Christianity. At 4:00.

Winter Quarter.

HEAD PROFESSOR NORTHRUP.

Theology as taught by Paul. DM. XXXIII. (12)

ASSISTANT PROFESSOR SIMPSON.

Anthropology. M. 1st Term. XXXIII. (9)

Ethics. DM. XXXIII. (13)

ASSISTANT PROFESSOR JOHNSON.

Homiletics. M. 2d Term. XXXV. (2)

Spring Quarter. Revised.

MR. WOODRUFF.

Studies in the Gospel of Luke on the basis of the Revised Version. M. 1st Term. XV. (B 9)
At 9:30

ASSOCIATE PROFESSOR PRICE.

Isaiah, I-XXXIX. M. 1st Term. (XV. A. 1).

At 10:30

ASSISTANT PROFESSOR JOHNSON.

Homiletics. M. 1st Term. XXXV. (2) At 11:30

THE PRESCRIBED CURRICULUM FOR THE SECOND YEAR.

Autumn Quarter.

ASSOCIATE PROFESSOR PRICE.

The Books of Samuel and Kings. At 2:00.

HEAD PROFESSOR HULBERT.

History of the Church from Constantine to Theodosius. At 11:30.

HEAD PROFESSOR ANDERSON.

Church Polity and Pastoral Duties. At 3:00.

ASSISTANT PROFESSOR SIMPSON.

Evidences of Christianity. At 4:00.

Required of students who have not studied Christian Evidences.

Winter Quarter.

HEAD PROFESSOR NORTHRUP.

Theology as taught by Paul. DM. XXXIII. (12)

HEAD PROFESSOR HULBERT.

History of the Church from Theodosius to Charles the Great. M. 1st Term. XXXIV. (3)

HEAD PROFESSOR ANDERSON.

Homiletics. DM. XXXV. (16)

ASSISTANT PROFESSOR SIMPSON.

Soteriology. M. 2d Term. XXXIII. (10)**Ethics.** DM. XXXIII. (13)

Required of students who have not studied Ethics.

Spring Quarter. Revised.

ASSISTANT PROFESSOR SIMPSON.

Eschatology. M. 1st Term. XXXIII. (5) At 3:00

MR. WOODRUFF.

Studies in the Gospel of Luke on the basis of the Revised Version. M. 1st Term. XV. (B 9) At 9:30

ASSOCIATE PROFESSOR PRICE.

Isaiah, I-XXXIX. M. 1st Term. (XV. A. 1) At 10:30*THE DANISH-NORWEGIAN THEOLOGICAL SEMINARY.*

XL. OLD AND NEW TESTAMENT LITERATURE AND EXEGESIS. (DAN.-NOR.)

Autumn Quarter.

ASSISTANT PROFESSOR GUNDERSON.

General Introduction. M. 1st Term. (1)**Particular Introduction.** M. 1st Term. (2)**The Principles of Biblical Interpretation.** M. 2d Term. (3)**Exegesis.** The Epistle to the Galatians. M. 2d Term. (6)*Winter Quarter.*

ASSISTANT PROFESSOR GUNDERSON.

Exegesis. The Epistle to the Romans. DM. (7)**The Parables of Our Lord.** DM. (5)*Spring Quarter. Revised.*

ASSISTANT PROFESSOR GUNDERSON.

Sacred Geography and Biblical Antiquities. M. 1st Term. (4) At 9:30**The Epistle to the Ephesians.** M. 1st Term. (8) At 10:30

XLI. SYSTEMATIC THEOLOGY. (DAN.-NOR.)

Winter Quarter.

PROFESSOR JENSEN.*

Introduction to the Science of Christian Theology M. 1st Term. (1)**Antecedents of Redemption.** M. 1st Term. (2)**Redemption Itself.** M. 2d Term. (3)**Consequents of Redemption.** M. 2d Term. (4)

XLII. HOMILETICS AND PASTORAL DUTIES. (DAN.-NOR.)

Autumn Quarter.

PROFESSOR JENSEN.*

Theory of Preaching. M. 1st Term. (1)**Sermonizing and Preaching.** DM. (2)**Pastoral Theology.** 2d Term. (3)

* In the absence of Professor Jensen, instruction is given by Professor Wold.

THE SWEDISH THEOLOGICAL SEMINARY.

XLV. OLD AND NEW TESTAMENT LITERATURE AND
EXEGESIS. (SWEDISH.)

Autumn Quarter.

ASSISTANT PROFESSOR MORTEN.

Exegesis. The Gospels in Harmony. DM. (3)
The Epistle to the Romans. M. 1st
Term. (5)
The Catholic Epistles. M. 2d Term. (6)

Spring Quarter.

ASSISTANT PROFESSOR MORTEN.

Exegesis. The Epistle of the Hebrews. M. 1st
Term. (7) At 8:30

XLVI. SYSTEMATIC THEOLOGY AND PASTORAL DUTIES.
(SWEDISH.)

Autumn Quarter.

PROFESSOR LAGERGREN.

Theological Prenotions. M. 1st Term. (1)
General Introduction. M. 2d Term. (2)
The Doctrine of Redemption and Salvation.
M. 1st Term. (6)
The Doctrine of the Church, or Church Polity.
M. 2d Term. (7)

Winter Quarter.

PROFESSOR LAGERGREN.

The Bible a Revelation from God. M. 1st Term. (3)

The Doctrine of God. M. 2d Term. (4)
The Last Things. M. 1st Term. (8)
Symbolics. M. 2d Term. (9)

Spring Quarter. Revised.

PROFESSOR LAGERGREN.

The Doctrine of Man. M. 1st Term. (5) At 2:00
Pastoral Duties. M. 1st Term. (10) At 3:00

XLVII. CHURCH HISTORY. (SWEDISH.)

Winter Quarter.

ASSISTANT PROFESSOR SANDELL.

Ancient Church History. M. 1st Term. (1)
Mediaeval Church History. M. 2d Term. (2)

Spring Quarter. Revised.

ASSISTANT PROFESSOR SANDELL.

Modern Church History. M. 1st Term. (3) At 9:30

XLVIII. HOMILETICS. (SWEDISH.)

Winter Quarter.

ASSISTANT PROFESSOR SANDELL.

Theoretical Homiletics. M. 1st Term. (1)
Practical Homiletics. M. 2d Term. (2)

TIME SCHEDULE.

SPRING QUARTER, 1894.

The Laboratory Work of the Chemical Department and the Field Work of other Departments is not indicated in this time schedule.

HOURS.	DIVINITY SCHOOL.	GRADUATE SCHOOL AND UNIVERSITY COLLEGE OF ARTS AND LITERATURE.	OGDEN (GRADUATE) SCHOOL AND UNIVERSITY COLLEGE OF SCIENCE.	ACADEMIC COLLEGES.
A. M. 8:30.	<p>Epistle to the Hebrews (<i>Morten</i>).</p>	<p>Advanced Psychology; Seminar (<i>Strong</i>). Scope and Method of Political Econ. (<i>Caldwell</i>). Roman and Barbarian (<i>Terry</i>). Social Psychology (<i>Smalt</i>). History of the Septuagint (<i>Arnolt</i>). Latin Hymns (<i>Chandler</i>). French Literature of 19th Cent. (<i>Bergeron</i>). Argumentative Composition (<i>Lovett</i>).</p>	<p>Theta Functions (<i>Moore</i>). Differential Equations (<i>Boyd</i>). Aromatic Compounds (<i>Curtiss</i>) Thur. and Sat. 8:30-12:30. Spec. Bacteriology (<i>Ordan</i>) 2:30-4:30. Research in Osteol. (<i>Barw</i>). 8:30-12:30. Neurology (<i>Donatison</i>).</p>	<p>Cicero, Livy, Terence, Tacitus (<i>Miller</i>). Ovid, Horace, Catullus, Cicero (<i>Emery</i>). French Gram. for Beginners (<i>Kinne</i>). Argumentative Comp., English (<i>Lovett</i>). Plane Trigonometry (<i>Young</i>). General Physics (<i>Stratton</i>). Elocution (<i>Clark</i>) Tuesday.</p>
9:30.	<p>Anthropology (<i>Northrup</i>). Gospel of Luke (<i>Woodruff</i>). Sacred Geography and Bibl. Antiquities (<i>Gunderson</i>). Modern Church History (<i>Sandell</i>).</p>	<p>Financial History of United States (<i>A. C. Miller</i>). Industrial and Economic History (<i>Hill</i>). Comparative Politics (<i>Padson</i>). Problems of Social Statics (<i>Shall</i>). Mesopotamian Geog. (<i>R. F. Harper</i>). 1st Term. Assyrian and Baby. Life (<i>R. F. Harper</i>). 2d Term. Thucydides (<i>Turbell</i>). Roman Administration (<i>Abbott</i>). Old French (<i>Knapp</i>). French Rapid Readings (<i>Bergeron</i>). Spanish Readings (<i>Wallace</i>). Advanced English Composition (<i>Herrick</i>). Poetry of Spenser (<i>Carpenter</i>).</p>	<p>Finite Groups of Linear Substitutions (<i>Maschke</i>). Secular Perturbations (<i>See</i>). Petrology (<i>Iddings</i>). Original Investigation in Physiology (<i>Loeb</i>).</p>	<p>Lysias; Greek Exercises (<i>Castle</i>). French Rapid Reading (<i>Kinne</i>). Spanish Readings (<i>Wallace</i>). English Literature (<i>Tolman</i>). English Composition (<i>Lovett</i>). Gospel of Luke (<i>Woodruff</i>) 1st Term. Plane Anal. Geom. (<i>Boyd</i>). Elocution (<i>Clark</i>) Tuesday.</p>
10:30.	<p>Pauline Epistles (<i>Votaw</i>). Isaiah, 1-39 (<i>Price</i>). Calvin and the Swiss Reformation (<i>Johnson</i>). Epistle to the Ephesians (<i>Gunderson</i>).</p>	<p>Movem. of Thought in 19th Cent. (<i>Tyfts</i>). 1 Term. Spencer's First Principles (<i>Mezes</i>). 2d term. History of Political Economy (<i>Caldwell</i>). Socialism (<i>Veblen</i>). Advanced Statistics (<i>Hourwich</i>). Mon. and Fri. Elements of Political Science (<i>Judson</i>). Italian Renaissance (<i>Schwill</i>). Friday, 10:30-12:30. Elements of Living (<i>Talbot</i>). Labor Legislation (<i>Remis</i>). Seminar in Comp. Sem. Grammar (<i>W. E. Harper</i>). Saturday, 10:30-12:30. Assyrian Letters (<i>R. F. Harper</i>). 1st Term. Babylonian Contracts (<i>R. F. Harper</i>). 2d Term. Minor Proph. of Assyria Period (<i>Acad</i>). 1st Term. Messianic Prophecy (<i>Kent</i>). 2d Term. Sanskrit (<i>Bucok</i>). Greek Drama (<i>Shorey</i>). Classical Archaeology (<i>Tarbell</i>). Development of Roman Oratory (<i>Chandler</i>). Elements of French Literature (<i>Bergeron</i>). Old Spanish (<i>Knapp</i>). Early 19th Century German Prose (<i>Wood</i>). Tragedy in Shakesp. Drama (<i>Moulton</i>). English Literature Seminar (<i>Crow</i>). Isaiah 1-39 (<i>Price</i>).</p>	<p>Theoretical Electricity (<i>Maschke</i>). General Physics, advanced (<i>Michelson and Stratton</i>). Geologic Life Develop. (<i>Chamberlin</i>). Anat. and Physiology of Cell (<i>Watase</i>) General Physiology (<i>Loeb</i>).</p>	<p>Outline Hist. of Middle Ages (<i>Thatcher</i>). Greek Drama (<i>Shorey</i>). Homer's Odyssey (<i>Castle</i>). Messianic Prophecy (<i>Kent</i>) 2d Term. Required Mathem. (<i>Young</i>). General Physiology (<i>Loeb</i>). Elocution (<i>Clark</i>) Tuesday.</p>

11:30.	<p>Anthropology (<i>Northrup</i>).</p> <p>Homiletics (<i>Johnson</i>).</p>	<p>Geography of Europe (<i>Conger</i>).</p> <p>Outline Hist. of the United States (<i>Shepardson</i>).</p> <p>Prehistoric Archaeol. of North Am. (<i>Starr</i>).</p> <p>Early Historical Inscriptns (<i>R. F. Harper</i>).</p> <p>Outline of Hebrew History (<i>Kent</i>).</p> <p>Avestan (<i>Buck</i>).</p> <p>French, adv. Syntax and Conversation (<i>Bergerson</i>).</p> <p>Historical French Grammar (<i>Poggen</i>).</p> <p>English Literature of 18th Cent. (<i>Triggs</i>).</p>	<p>Theory of Invariants (<i>Young</i>).</p> <p>History of Astronomy (<i>See</i>).</p> <p>Physics, Special Graduate Course (<i>Michelson</i>).</p> <p>Organic Chemistry (<i>Nef</i>). 1st Term.</p> <p>Petrography (<i>Jadings</i>).</p> <p>Comparative Osteology (<i>Baur</i>).</p>	<p>Geography of Europe (<i>Conger</i>).</p> <p>Outline of Hebrew History (<i>Kent</i>).</p> <p>Horace, Satires (<i>Emery</i>).</p> <p>Elementary German Prose (<i>Schmidt-Wartenberg</i>). 1st Term.</p> <p>Engl. Liter. of 19th Cent. (<i>Triggs</i>).</p> <p>Required Mathem. (<i>Boyd</i>).</p> <p>Required Mathem. (<i>Staugh</i>).</p> <p>General Chemistry (<i>Leugfeld</i>).</p> <p>Elocution (<i>Clark</i>) Wednesday.</p>
P. M. 12:30 to 1:00.	<p>CHAPEL EXERCISE.</p>	<p>CHAPEL EXERCISE.</p>	<p>CHAPEL EXERCISE.</p>	<p>CHAPEL EXERCISE.</p>
2:00.	<p>History of Preaching (<i>Anderson</i>).</p> <p>System. Theology (<i>Lagergren</i>).</p>	<p>Social Economics (<i>Bemis</i>).</p> <p>Tariff History of United States (<i>Hill</i>).</p> <p>History of Greece (<i>Goodspeed</i>).</p> <p>The Family (<i>Henderson</i>) 1st Term.</p> <p>Social Institutions (<i>Henderson</i>) 2d Term.</p> <p>Anthropology. Laboratory Work (<i>Starr</i>).</p> <p>Arabic (<i>Hirsch</i>).</p> <p>Mod. Discov. and the Old Test. (<i>Price</i>) 1st Term.</p> <p>German Ballads (<i>von Klentze</i>).</p> <p>Old Eng. Seminar (<i>Blackburn</i>). Mon. 2:00-4:00.</p> <p>Comp. Gram. of Old English (<i>Blackburn</i>).</p> <p>Poetic Forms in Elizabethan Era (<i>Crow</i>).</p> <p>Shakespeare (<i>Lovett</i>).</p> <p>Advanced Elocution (<i>Clark</i>). Tue. & Frid.</p>	<p>Solar Physics (<i>Hale</i>).</p> <p>Probabilities and Method of Least-Squares (<i>Laves</i>) Course (<i>Michelson</i>) at 1:30.</p> <p>Physics, Laboratory Practice (<i>Michelson and Stratton</i>).</p> <p>Qualit. Anal. (<i>Schneitzer</i>) Thur. and Fri.</p> <p>Biological Readings (<i>Jordan</i>).</p> <p>Research in Osteology (<i>Baur</i>).</p> <p>Anat., Research Meth. (<i>Eyckeshymer</i>).</p> <p>Physiology, Laboratory Work (<i>Loeb</i>). Tuesday and Friday.</p> <p>Physiology, Laboratory Work (<i>Lingle</i>) Mon., Wedn., and Thur.</p> <p>Physiological Seminar (<i>Loeb</i>) Wedn.</p>	<p>Modern German Prose (<i>Schmidt-Wartenberg</i>). 2d Term.</p> <p>Rhetoric and Engl. Comp. 1 A. (<i>Herrick Lovett and Lewis</i>).</p> <p>Rhetoric and Engl. Comp. 1 B. (<i>Herrick Lovett and Lewis</i>) Wed. 1:30-4:00.</p> <p>Physics, Laborat. Pract. (<i>Hobbs</i>) 1:30</p> <p>Advanced Elocution (<i>Clark</i>) Tue., Frid</p> <p>Elocution (<i>Clark</i>) Wednesday.</p>
3:00.	<p>History of Preaching (<i>Anderson</i>).</p> <p>Eschatology (<i>Simpson</i>).</p> <p>Pastl. Duties (<i>Lagergren</i>).</p>	<p>Philosophy, Introductory Course (<i>Mezes</i>).</p> <p>Economic Seminar (<i>Laughlin</i>).</p> <p>State Interf. in Distrib. of Wealth (<i>Cummings</i>).</p> <p>French Revolution (<i>von Holst</i>).</p> <p>Seminar: Socialism (<i>Small</i>) Thursday.</p> <p>Seminar: Soc. Org. (<i>Henderson</i>) Tues. 3:00-5:00.</p> <p>Seminar in Sanitary Science (<i>Talbot</i>).</p> <p>Relig. of Greece, Rome, etc. (<i>Goodspeed</i>)</p> <p>Hebrew Syntax (<i>W. R. Harper</i>) 2d Term.</p> <p>Advanced Syriac (<i>Hirsch</i>).</p> <p>Books of Samuel (<i>Price</i>) 1st Term.</p> <p>Books of Samuel (<i>Crandall</i>) 1st Term.</p> <p>Seminar: Anc. Philos. (<i>Shorey</i>) Monday.</p> <p>Lit. Criticism of the Ancients (<i>Shorey</i>) Thurs.</p> <p>Seminar: Latin (<i>Hale</i>) Tues. 3:00-5:00.</p> <p>Seminar: Colloquial Lat. (<i>Abbott</i>) Wednesday.</p> <p>Goethe's Life (<i>von Klentze</i>)</p> <p>Introd. to Phon. (<i>Schmidt-Wartenberg</i>) 2d Term.</p> <p>Old High Germ. (<i>Schmidt-Wartenberg</i>) 1st Term.</p> <p>Old English, Elementary Course (<i>Blackburn</i>).</p> <p>Hist. of English Prose Literature (<i>Herrick</i>).</p> <p>Nineteenth Cent. Literary Movements (<i>Triggs</i>).</p>	<p>Mathem. Seminar (<i>Moore</i>) altern. Frid.</p> <p>Determination of Orbits of Planets (<i>Laves</i>).</p> <p>Astronomical Seminar (<i>See and Laves</i>) alternate Fridays.</p> <p>Cellular Biology (<i>Watasé</i>), at the Biological Club.</p> <p>Seminar in Comp. Osteology (<i>Baur</i>).</p> <p>Research in Osteology (<i>Baur</i>).</p> <p>Physiology, Labor. Work (<i>Loeb</i>). Tue. and Frid.</p> <p>Physiology, Labor. Work (<i>Lingle</i>) Mon. Wedn. and Thur.</p> <p>Physiological Sem. (<i>Loeb</i>) Wedn.</p> <p>Comparative Anatomy, Lect. (<i>Meyer</i>). Frid. 3:00-5:00.</p>	<p>Outline History of Modern Europe (<i>Schneid</i>).</p> <p>Cicero, Livy, Terence, Tacitus (<i>Miller</i>).</p> <p>French Gram. for Beginners (<i>Kinne</i>).</p> <p>History of English Prose Literature (<i>Herrick</i>).</p> <p>Elocution (<i>Clark</i>) Wednesday.</p>
4:00.	<p>CHAPEL EXERCISE.</p>	<p>CHAPEL EXERCISE.</p>	<p>CHAPEL EXERCISE.</p>	<p>CHAPEL EXERCISE.</p>

The Official and Semi-Official Organizations.

NOTE.—It has been decided to publish in the QUARTERLY CALENDAR brief abstracts of papers read at the meeting of the Union, the Philological Society, and the Departmental Clubs. The presiding officers of these associations are requested to announce this decision at the meetings of their club; and the secretaries are expected to send at their earliest convenience, to the Recorder's office, a report containing: (1) Date of regular meeting of the Club, and (2) List of officers elected for the current year. It shall also be the Secretary's duty to furnish to the Recorder the titles of articles to be presented to the Clubs at their next meeting, and to see that brief abstracts of these communications are sent to the Recorder's Office within ten days after the meeting of the Club.

OFFICERS OF THE UNIVERSITY CLUBS.

THE UNIVERSITY UNION.

President—William B. Owen, of the Classical Club.
Vice President—Madeleine Wallin, of the Political Science and History Club.

Secretary and Treasurer—J. A. Smith, of the Mathematical Club.

Meets on the last Friday of the first term of each Quarter, at 8:00 P.M., in *Theatre, Kent Chemical Laboratory*.

THE PHILOLOGICAL SOCIETY.

President—Head Professor W. G. Hale.
Vice President—Assistant Professor S. W. Cutting.
Secretary—Associate Professor F. F. Abbott.
Programme Committee—The President, Vice President, and the Secretary, with W. B. Owen and Susan R. Cutler, of the Graduate School.

The Society meets in Room B 8, Cobb Lecture Hall, on the third Friday of each Term, 8:00 P.M.

THE DEPARTMENTAL CLUBS.

THE BIOLOGICAL CLUB.

President—Head Professor C. O. Whitman.
Vice President—Professor H. H. Donaldson.
Secretary and Treasurer—A. D. Mead, who also represents the Club in the University Union.

Meets fortnightly, Wednesdays at 3:00 P.M. in *Kent Chemical Laboratory*.

THE CLASSICAL CLUB.

President—Head Professor W. G. Hale.
Vice President—Professor Paul Shorey.
Secretary—S. Frances Pellett.
Delegate to the University Union—W. B. Owen.
Executive Committee—The President, Vice-President, and the Secretary, with Arthur T. Walker and Emily James Smith, of the Graduate School.

Meets monthly.

THE CHEMICAL CLUB.

President—Professor J. U. Nef.
Delegate to the University Union—R. W. Wood.
Meets every Friday at 8:00 P.M. in *Lecture Room, Kent Chemical Laboratory*.

THE ENGLISH CLUB.

President—Assistant Professor F. A. Blackburn.
Secretary—Assistant Professor A. H. Tolman.
Delegate to the University Union—L. D. Milliman.
Programme Committee—The President, Secretary, and Delegate.

The meetings are to be held hereafter upon Tuesday evening of the third, seventh, and eleventh weeks of each quarter, in Cobb Lecture Hall, Room B 10, at 8:00 P.M.

THE CHURCH HISTORY CLUB.

President—A. W. Wishart.
Secretary—C. D. Case.
Delegate to the University Union—A. W. Wishart.

Meets on the first Tuesday at 8:00 P.M. of each month in the Faculty Room.

THE EXEGETICAL CLUB.

President—Harry Howard.
 Secretary and Treasurer—E. A. Read.
 Delegate to the University Union—L. D. Osborn.
 Programme Committee—Professors Price,
 Burton, and Goodspeed.

Meets fortnightly on Tuesday evening, in D 16.

THE GEOLOGICAL CLUB.

President—Dr. J. C. Merriam.
 Vice President—Dr. E. C. Quereau.
 Secretary—E. Ch. Perisho.
 Delegate to the University Union—E. C.
 Quereau.

Meets fortnightly, Tuesdays at 4:00 P.M., in Walker
 Museum.

THE GERMANIC CLUB.

President—Assistant Professor S. W. Cutting.
 Secretary—F. A. Wood.
 Delegate to the University Union—F. A. Wood.

Meets weekly on Mondays at 2:00 P.M. in B 11.

THE LATIN CLUB.

President—Dr. F. J. Miller.
 Secretary—Harry W. Stone.
 Delegate to the University Union—Henry G.
 Gale.

Meets monthly, 8:00 P.M., at 5410 Madison av.

THE MATHEMATICAL CLUB AND SEMINAR.

Conducted by the Instructors of the Mathematical
 Faculty; meets fortnightly, Fridays at 3:00 P.M., in
 Room C 17.

Delegate to the University Union—J. Archie
 Smith.

*THE NEW TESTAMENT JOURNAL AND
 ESSAY CLUB.*

President—Dr. W. M. Arnolt.
 Vice President—Head Professor E. D. Burton.
 Secretary—C. E. Woodruff.
 Delegate to the University Union—A. T. Watson.

Meets fortnightly on Wednesdays from 4:00 to
 6:00 P.M., in D 13.

THE PALÆONTOLOGICAL CLUB.

President—Assistant Professor G. Baur.
 Secretary—Wm. E. Taylor.
 Delegate to the University Union—Dr. J. C.
 Merriam.

Meets fortnightly on Mondays at 3:00 P.M., in
 Walker Museum, 3d floor.

THE PHYSICS CLUB.

This Club has not yet organized; but will do so, as
 soon as the Department has moved into its new
 quarters.

THE POLITICAL ECONOMY CLUB.

Honorary President—Head Professor J. L.
 Laughlin.
 President—William Hill.
 Secretary and Treasurer—J. Cummings.
 Delegate to the University Union—Dr. Thor-
 stein B. Veblen.
 Executive Committee—The President, Secre-
 tary, Sarah M. Hardy, John Cummings, and
 Robert F. Hoxie.

Meets Thursdays at 7:30 P.M. in the Faculty Room.

*THE POLITICAL SCIENCE AND HISTORY
 CLUB.*

President—Professor H. P. Judson.
 Secretary and Treasurer—Cora L. Start.
 Delegate to the University Union—Madeleine
 Wallin.
 Executive Committee—Madeleine Wallin, Chas.
 Goodspeed, and Chas. J. Conger.

Meets fortnightly on Wednesdays at 8:00 P.M., in
 the Faculty Room.

THE SEMITIC CLUB.

President—Associate Professor Ira M. Price.
 Secretary—Edgar J. Goodspeed.
 Delegate to University Union—John Byrd Whaley.

Meets fortnightly on Thursdays at 7:30 P.M., in the Room of the Semitic Seminar.

THE SOCIAL SCIENCE CLUB.

President—Daniel Fulcomer.
 Vice President—J. W. Howerth.
 Secretary and Treasurer—C. A. Hastings.
 Delegate to the University Union—Hannah B. Clark.

Meets fortnightly on Mondays at 7:30 P.M. in the Faculty Room.

THE LITERARY SOCIETY OF THE DANISH-NORWEGIAN THEOLOGICAL SEMINARY.

President—H. M. Andersen.
 Vice President—C. P. Grarup.
 Secretary—Edw. P. Johnson.
 Critic—T. O. Wold.
 Programme Committee—A. L. Brandsmark,
 P. P. Overgaard, and S. O. Børsheim.

Meets fortnightly on Mondays at 8:00 P.M., in D 9.

*THE CHRISTIAN UNION AND OTHER RELIGIOUS ORGANIZATIONS.**OFFICERS OF THE CHRISTIAN UNION.*

President—Assistant Professor C. R. Henderson.
 Vice President—C. W. Spencer.
 Secretary and Treasurer—F. W. Woods.
 Chairman of the Committee on:
 Bible Study—J. H. Grant.
 Social Life—H. W. Stone.
 Public Worship—C. W. Spencer.
 Philanthropic Work—M. L. Marot;

And associated with her are: Misses A. C. Wilmarth, M. Reynolds, M. B. Hancock, C. L. Jones, S. M. Hardy, and M. Wallin; Messrs. C. K. Chase, J. H. Grant, and R. F. Hoxie. Head Professor J. L. Laughlin and Assistant Professor O. J. Thatcher.

The Executive Committee holds its regular meetings on the first and third Tuesdays of each month at 5:00 P.M. It is composed of the officers of the Christian Union and the Chairmen of the several Committees, together with the Presidents of the related societies.

THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION.

President—Mrs. Z. A. Dixon.

Meets every Thursday at 1:30 P.M., in *Lecture Room, Cobb Lecture Hall.*

Union Meetings of the two Associations are held on Sundays, at 6:45 P.M.

THE MISSIONARY SOCIETY

Of the Divinity School of the University of Chicago.

President—E. A. Read.
 Vice President—C. A. Salquist.
 Treasurer—E. G. Stucker.
 Secretary—C. D. Case.

Meets fortnightly on Thursday evening, in *Chapel, Cobb Lecture Hall.*

*OFFICERS OF THE RELATED SOCIETIES.**THE YOUNG MEN'S CHRISTIAN ASSOCIATION.*

President—Theo. G. Soares.

Meets every Friday, at 6:45 P.M., in *Lecture Room, Cobb Lecture Hall.*

VOLUNTEER BAND

Of the University of Chicago.

President—J. T. Proctor.
 Secretary—Miss Nora Thompson.

Meets monthly in D 6.

THE UNIVERSITY CHAPEL.

The following Instructors in the University have been invited to act as Chaplains for the periods announced:

Jan. 29–Feb. 3. Head Professor A. W. Small.
 Feb. 5–10. Registrar H. B. Grose.
 Feb. 12–17. Head Professor E. B. Hulbert.
 Feb. 19–24. Head Professor W. G. Hale.
 Feb. 26–Mar. 3. Assistant Professor Mrs. M. F. Crow.
 Mar. 5–10. Head Professor G. Anderson.

Mar. 12–17. Professor H. P. Judson.
 Mar. 19–24. Head Professor E. D. Burton.
 Mar. 26–31. Assistant Professor B. F. Simpson.
 Apr. 2–7. Assistant Professor H. C. Tolman.
 Apr. 9–14. Assistant Professor J. H. Tufts.
 Apr. 16–21. Head Professor G. W. Northrup.
 Apr. 23–28. Professor E. G. Hirsch.

Chapel Service is held from 12:30 to 1:00 P. M. every day except Sundays and Mondays.

THE EMPLOYMENT BUREAU.

Students who desire to take up with the work of the Chicago City Directory next May should choose their courses with a view to vacation during the second term of the Spring Quarter, and should also report to the University Steward.

Students who desire to take the examination for

Certificates as Grammar School Principals or High School Assistants, should hand their names to the University Steward. The examination will occur late in June.

The examination for Certificates as City High School Teachers will occur about September 15.

THE STUDENTS' FUND SOCIETY.

This Society makes loans upon the joint recommendation of its own Committee and a Committee of the Faculty. Students are not eligible for loans until they have been members of the University one Quarter. Applications are considered by the Committee of the Faculty at the beginning of each Quarter, but in order that the necessary preliminary information may be secured all applications for loans to be granted in any Quarter must be handed in to *Assistant Professor Tufts*, Chairman, by the end of the eleventh week of the preceding Quarter. Application blanks may be secured at the office of the Registrar.

The Officers of the Society are:
 President—A. A. Sprague.

Vice President—Norman Williams.

Secretary—Charles H. Hamill.

Treasurer—Byron L. Smith.

The Officers of the Executive Committee are:

President—Mrs. H. M. Wilmarth.

Vice President—Mrs. George E. Adams.

Secretary—Mrs. Noble B. Judah.

The Board of Directors consists of seven gentlemen and twelve ladies.

The Committee of the Faculty is composed of:
 Assistant Professor J. H. Tufts, Chairman; Dean Judson, Dean Talbot, Associate Professor Stagg, Assistant Professor Cutting, and Dr. Young.

The University Extension Division.

JANUARY 1, 1894.

NOTE.—The University Extension Division offers instruction according to three different methods: (1) by Lecture-studies with the usual features of syllabus, review, weekly exercise, and examination; (2) by Class-instruction in classes organized outside of the University, but within the limits of the City of Chicago, and meeting on Evenings and Saturdays; (3) by Correspondence.

The following is a list of the courses of instruction at present offered in the University Extension Division by each of these methods. This list will necessarily be modified as the demand for new courses arises.

For a complete account of the aims and methods of University Extension work consult the Circular of Information issued by the University Extension Division.

The numbers of the Departments correspond with those in the University (proper).

THE LECTURE-STUDY DEPARTMENT.

NATHANIEL BUTLER, JR., *Secretary.*

II. POLITICAL ECONOMY.

ASSOCIATE PROFESSOR BEMIS.

Questions of Labor and Social Reform.
Questions of Monopoly and Taxation.
Money.

The Founding of the German Empire of To-Day.
Studies in the History of Europe from the French
Revolution to the Present Time.
Character Studies in Nineteenth Century History.

DR. SHEPARDSON.

Social Life in the American Colonies.

III. POLITICAL SCIENCE.

PROFESSOR JUDSON.

American Politics.
I The Period of Dominant Foreign Influence.
II The Period of Dominant Internal Development.

MR. HODGIN.

American Discovery and Colonization.
American Revolutionary History.
The Great Compromises.

MISS BROWN.

The United States; The Making of a Nation.

MR. HUNTER.

Roman, Barbarian, and Christian.

MR. CONGER.

Historical and Political Geography.

MR. POTTER.

The Colonial Era.
The Making of the Nation.

IV. HISTORY.

PROFESSOR TERRY.

An Introduction to the Study of History.
The Ethnic Foundation of Modern Civilization.
Political Foundation of Modern Civilization.

MR. WEBSTER.

The Making of a Federal Republic.
Six American Statesmen.

MR. WISHART.

Monks and Monasteries.

PROFESSOR GORDY.

The History of Political Parties in the United
States.
Representative American Statesmen.

V. SOCIAL SCIENCE AND ANTHROPOLOGY

HEAD PROFESSOR SMALL.

First Steps in Sociology.

ASSISTANT PROFESSOR THATCHER.

The History of the Middle Ages.
Mohammed, Mohammedanism, and the Crusades.

ASSISTANT PROFESSOR HENDERSON.

Charities and Corrections.

MR. GROSE.

The Political Development of the European Nations
since 1792.

ASSISTANT PROFESSOR STARR.

Some First Steps in Human Progress.
The Native Races of North America.

Prehistoric Archæology of Europe.
Evolution.

MR. ZEUBLIN.

A Century of Social Reform.
The Industrial Revolution.
English Fiction and Social Reform.

MR. GENTLES.

First Aid to the Injured.

MR. FULCOMER.

Christianity and Social Science.
Means of Social Reform.

VI. COMPARATIVE RELIGIONS.

MR. BUCKLEY.

The Religions of Japan.

VII. THE SEMITIC LANGUAGES AND LITERATURES.

MR. WALKER.

The History and Institutions of Islam.

X AND XI. THE GREEK AND LATIN LANGUAGES AND LITERATURES.

PROFESSOR SHOREY.

Six Readings from Horace.
Homer, the Iliad.
Studies in the Greek Drama.

ASSOCIATE PROFESSOR BURGESS.

Preparatory Latin Teaching.

ASSISTANT PROFESSOR CASTLE.

The Decline and Fall of Greece.

DR. MILLER.

Virgil.

XIII. GERMANIC LANGUAGES AND LITERATURES.

ASSISTANT PROFESSOR CUTTING.

Goethe.

XIV. THE ENGLISH LANGUAGE AND LITERATURE.

PROFESSOR MOULTON.

Studies in Biblical Literature.
Ancient Tragedy for English Audiences.
Stories as a Mode of Thinking.
Spenser's Legend of Temperance.
Literary Criticism and Theory of Interpretation.
Shakespeare's "Tempest" with Companion
Studies.

ASSOCIATE PROFESSOR BUTLER.

Preliminary Course in English Literature.
Some Studies in American Literature.

ASSISTANT PROFESSOR CROW.

Literature of the Age of Elizabeth: A Course
Preparatory to the Study of Shakespeare.
George Meredith.

ASSISTANT PROFESSOR MCCLINTOCK.

Introduction to the Study of Literature.
English Romantic Poets from 1780 to 1830.

ASSISTANT PROFESSOR TOLMAN.

Studies in English Poetry.

MR. TRIGGS.

Robert Browning.

MR. HOOPER.

American Prose Writers.
American Poets.

MR. OGDEN.

English Words.
History and Structure of English Speech.
Old English Life and Literature.
American Poets and Poetry.

MISS CHAPIN.

General Survey of American Literature.
Masterpieces of English Poetry.

XV. BIBLICAL LITERATURE IN ENGLISH.

HEAD PROFESSOR HARPER.

The Stories of Genesis.

HEAD PROFESSOR BURTON.

The Second Group of Paul's Letters.

PROFESSOR HIRSCH.

Religion in the Talmud.
The Jewish Sects.
Biblical Literature.
History of Judaism.

ASSOCIATE PROFESSOR PRICE.

What the Monuments tell us relative to the Old
Testament.
The Forgotten Empire and the Old Testament.

ASSISTANT PROFESSOR THATCHER.

The Apostolic Church.

DR. KENT.

Hebrew Prophecy studied in the Light of the
Minor Prophets.
Social Philosophy of the Hebrews.
Hebrew Wisdom Literature.

DR. RUBINKAM.

The Five Megilloth (Rolls).

MR. VOTAW.

Some Aspects of the Life of Christ.

Sources and Relations of the Four Gospels. Jewish and Christian Writings parallel with, but excluded from, Our Bible.	Mr. BOYER. Zoölogy.	XXII. ZOÖLOGY.
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DR. SEE. General Astronomy.	Mr. MORSE. The Microscope and its Uses.	MICROSCOPY.
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XVII. ASTRONOMY.		
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ASSISTANT PROFESSOR STRATTON. Sound.	MR. FRENCH. Painting and Sculpture.	ART.
MR. BELDING. Elements of Electricity and Magnetism.	MR. TAFT. Ancient Sculpture.	
MR. CORNISH. Hydrostatics and Pneumatics.	Contemporary French Art.	
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XIX. CHEMISTRY.		
MR. MORSE. General Chemistry. Chemistry of Every-day Life.	MR. SCHREIBER. History of Art.	
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XX. GEOLOGY.		
PROFESSOR SALISBURY. Landscape Geology. The Evolution of the North American Continent.	MR. HOURWICH. Studies in Russian Literature.	RUSSIAN LITERATURE.

THE CLASS-WORK DEPARTMENT.

OLIVER J. THATCHER, *Secretary.*

NOTE.—The following is a list of the titles of Evening and Saturday Courses offered by University instructors. Whenever ten or more students apply for instruction in the same subject, and agree upon a place and time of meeting, a class in that subject is organized.

DR. MEZES. Psychology. DM.	MR. MULFINGER. German. DM.	XII. ROMANCE LITERATURE, AND PHILOSOPHY. M. DE POYEN-BELLISLE. French. M.
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MR. HILL. Principles of Political Economy. DM.	MR. TRIGGS. Nineteenth Century Literature. M.	XIII. GERMANIC LANGUAGES AND LITERATURES.
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MR. WILCOX. Civil Government of the United States. DM.	MR. LOVETT. Rhetoric. DM.	XIV. THE ENGLISH LANGUAGE AND LITERATURE, AND RHETORIC.
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III. POLITICAL SCIENCE.		
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IV. HISTORY.		
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The History of the Reformation. M.		
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XI. THE LATIN LANGUAGE AND LITERATURE.		
DR. MILLER. Latin. M.	DR. YOUNG. Elementary Algebra. M.	XVI. MATHEMATICS.
MR. ORR. Cæsar. M.	Algebra. M.	

MR. MANN.

Plane Trigonometry. M.

MR. CORNISH.

Physics. M.

XVII. ASTRONOMY.

DR. SEE.

General Astronomy. DM.

XIX. CHEMISTRY.

MR. MORSE.

Elementary Chemistry.

XX. GEOLOGY.

MR. KÜMMEL.

Geographic Geology. M.

XXII. ZOÖLOGY AND PALÆONTOLOGY.

MR. BOYER.

Elementary Zoölogy. MM.

XXVI. ELOCUTION.

MR. CLARK.

Reading. M.

*CORRESPONDENCE TEACHING DEPARTMENT.*OLIVER J. THATCHER, *Secretary.*

NOTE.—Instruction by correspondence may be either formal or informal. In formal correspondence, the work is carried on in much the same way as in the class room, by means of a definite number of lesson and recitation papers. In informal correspondence, no formal lesson papers are given. The work to be done is carefully planned by the instructor, the necessary directions are given, and ordinarily a thesis or paper is required of the student, who is free at all times to ask for help and advice as difficulties arise. This method is employed only with graduate students.

I. PHILOSOPHY.

Psychology. MM.

Logic. M.

Assistant Professor Tufts offers instruction by informal correspondence in the History of Philosophy.

II. POLITICAL ECONOMY.

Principles of Political Economy. MM.

III. POLITICAL SCIENCE.

Professor Judson offers instruction by informal correspondence in Political Science.

IV. HISTORY.

Roman History to the Death of Augustus. M.

Greek History to the Death of Alexander. M.

History of the United States. M.

The History of England till the Accession of the Tudors. MM.

The History of Europe from the Invasion of the Barbarians till the Death of Charlemagne. M.

The History of Europe from 800 to 1500 A.D. MM.

The Period of Discovery and Exploration in America. M.

The Colonial Period and the War of the Revolution. MM.

The Political History of the Confederation, from the union of the Colonies against Great Britain to the formation of a National Government. M.

The Political History of the United States, from the formation of the National Government to the period of dominant foreign politics (1789–1815). M.

The Political and Constitutional History of the United States, from the formation of the Confederation to the War of Secession, continued. M.

Dr. Shepardson offers instruction by informal correspondence in the History of the United States.

V. SOCIAL SCIENCE AND ANTHROPOLOGY.

The Methodology of Social Science. Open only to those who read both French and German fluently. MM.

Introduction to the study of the Dependent, Defective, and Delinquent Classes, and their Social Treatment. Two consecutive Majors.

The Family. M.

Non-economical and non-political Social Groups. M.

Anthropology. Elementary Course. MM.

VII. SEMITIC LANGUAGES AND LITERATURES.

Beginning Hebrew. M.

Intermediate Hebrew. M.

Exodus and Hebrew Grammar. M.
Haggai, Zechariah, and Malachi, with Hebrew Syntax. M.
Arabic for beginners. MM.
Assyrian for beginners. M.

Professor Harper offers instruction by informal correspondence in Hebrew.

VIII. BIBLICAL AND PATRISTIC GREEK.

Beginning New Testament Greek. M.
Intermediate New Testament Greek. M.
The Acts of the Apostles. M.

Professor Burton offers instruction by informal correspondence in the Greek New Testament.

IX. SANSKRIT AND INDO-EUROPEAN PHILOLOGY.

Sanskrit for Beginners. MM.

X. GREEK LANGUAGE AND LITERATURE.

Greek Primer for Beginners. Two consecutive Majors.

Xenophon's Anabasis, Books II-III. MM.
Xenophon's Anabasis, Books IV-V. MM.
Homer's Iliad, I Book. MM.
Homer's Iliad, Books II-IV. MM.
Xenophon's Memorabilia. MM.
Lysias, Selected Orations, History of Greek Prose Literature. MM.

Professor Shorey offers instruction by informal correspondence in Greek.

XI. THE LATIN LANGUAGE AND LITERATURE.

Latin Primer for Beginners. Two consecutive Majors.

Cæsar, Book II. MM.
Cæsar, Books III-IV. MM.
Cæsar, Book I, advanced. M.
Cicero. MM.
Cicero. MM.
Virgil, Book I. MM.
Virgil, Books II-III. MM.
Virgil, Books IV-VI. MM.
Cicero, De Senectute. Writing of Latin. MM.
Livy, Selections. Writing of Latin. MM.
Odes of Horace. Books I-II. MM.

XII. ROMANCE LITERATURE AND PHILOLOGY.

French for Beginners. MM.
A thorough course in Spanish Grammar with extensive readings. Two consecutive Majors.

XIII. GERMANIC LANGUAGES AND LITERATURES.

German for Beginners. MM.
German, advanced. MM.

Assistant Professor Cutting offers instruction by informal correspondence in German Literature.

XIV. THE ENGLISH LANGUAGE, LITERATURE, AND RHETORIC.

Rhetoric and Composition. MM.
Outline History of English Literature and the Study of Masterpieces. MM.
Studies in Tennyson. M.
Studies in Browning. M.
Studies in Matthew Arnold and Rosetti. M.
Studies in Shakespeare. MM.
English Romantic Poetry from 1750-1830. Studies in Cowper, Burns, Wordsworth, Coleridge, Byron, Shelley, Keats, etc. MM.

XV. BIBLICAL LITERATURE IN ENGLISH.

Samuel, Saul, David, and Solomon. M.
The Life of Christ in connection with the Gospel of Luke. M.
The Gospel of John. M.
The Founding of the Apostolic Church. First Half. M.

XVI. MATHEMATICS.

Algebra in three successive Majors.
Plane Geometry in three successive Majors.
Solid Geometry. M.
College Algebra. MM.
Theory of Equations. M.
Plane Trigonometry. MM.
Special Trigonometry. M.
Analytic Geometry. MM.
Calculus. Two Consecutive Majors.
Analytic Geometry, advanced course. MM.
Analytic Mechanics. MM.
Differential Equations. Two Consecutive Majors.

Professor Moore offers instruction by informal correspondence in higher Mathematics.

Appendices.

ORDER OF EXAMINATIONS FOR ADMISSION.

FOR THE SPRING QUARTER, 1894.

MARCH 21, 22, and 23.

WEDNESDAY, MARCH 21.

Latin 3)	9:00—10:00	Advanced German	2:00—4:00
Latin 1)	10:00—10:45	Elementary German	2:00—3:00
History of the United States	10:45—11:30	Greek 4)	3:00—4:00
History of Greece	11:30—12:15	Algebra	4:00—5:00
Latin 2)	12:15—12:45		

THURSDAY, MARCH 22.

Greek 3)	9:00—10:00	English	2:00—3:30
Advanced French	9:00—11:00	Solid Geometry	3:30—4:15
Elementary French	10:00—11:00	History of Rome	4:15—5:00
Greek 1)	11:00—12:15		

FRIDAY, MARCH 23.

Plane Geometry	9:00—10:00	Latin 4)	1:30—2:45
Physics	10:00—12:00	Geology, Astronomy, Physiography	1:30—2:30
		Biology	2:30—3:30
		Latin 5)	2:45—3:30
		Greek 2)	3:30—4:00
		Chemistry	3:30—5:30

EXAMINATIONS FOR ADMISSION.

FOR THE SUMMER QUARTER, 1894. JUNE 20, 21, AND 22.

FOR THE AUTUMN QUARTER, 1894. SEPTEMBER 19, 20, AND 21.

FOR THE WINTER QUARTER, 1895. DECEMBER 19, 20, AND 21.

STATED MEETINGS.

THE BOARD OF TRUSTEES holds stated meetings on the last Tuesday of each month.

THE VARIOUS FACULTIES hold stated meetings as follows :

THE FACULTY OF ARTS, LITERATURE, AND SCIENCE, on the third Thursday.

THE FACULTY OF THE DIVINITY SCHOOL on the second Thursday.

THE UNIVERSITY EXTENSION FACULTY, on the first Monday.

THE SENATE holds stated meetings on the first Friday.

THE COUNCIL holds stated meetings on the second Friday.

THE UNIVERSITY ADMINISTRATIVE BOARDS hold stated meetings monthly as follows :

OF THE UNIVERSITY PRESS, on the third Friday.

OF LIBRARIES, LABORATORIES, AND MUSEUMS, on the fourth Friday.

OF AFFILIATIONS, on the fourth Thursday.

OF PHYSICAL CULTURE AND ATHLETICS, on the first Thursday.

THE FACULTY ADMINISTRATIVE BOARDS hold stated meetings as follows :

OF THE ACADEMIC COLLEGES, on the first Wednesday.

OF THE UNIVERSITY COLLEGES, on the second Wednesday.

OF THE OGDEN (GRADUATE) SCHOOL OF SCIENCE, on the third Wednesday.

OF THE GRADUATE SCHOOL OF ARTS AND LITERATURE, on the fourth Wednesday.

THE REGULAR UNIVERSITY EXAMINATIONS are held in each subject at the hour of the last exercise of the term (or the quarter) in that subject. EXAMINATIONS FOR ADVANCED STANDING will be held on the second day of each quarter.

THESES OF CANDIDATES for higher degrees must be presented two months before the end of the students work.

NOTE 1.—Term examinations will be held regularly in the middle and at the end of each Quarter.

OFFICIAL PUBLICATIONS OF THE UNIVERSITY OF CHICAGO.

The *University Register* is issued about May 1 of each year. It contains a full statement in respect to the organization of the University, the Faculties, the Courses offered during the year, lists of students, requirements for admission, regulations governing the various schools and colleges of the University, an historical statement concerning the University, University clubs and organizations, etc.

The *University Calendar* is issued about the first day of May, August, November, February, and contains an historical statement of the University work of the preceding quarter, the Registration of Students during the quarter, and lists of courses of instruction to be offered during succeeding quarters.

The *Circular of Information* concerning the departments of Arts, Literature, and Science contains full information as to admission to the Schools and Colleges of these departments and lists of the courses given.

The *Circular of Information of the Divinity School* contains all information concerning the Divinity School courses, admission, etc.

The *Circular of Information of the University Extension Division* contains lists of lecturers, and courses offered, statement of correspondence work, class work, etc.

Departmental Programmes are issued by many of the departments of instruction, and give fuller details of the work of the departments than can be given in the Register or the Calendars.