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West Virginia University
MORGANTOWN, W. VA.

Department of Domestic Science

April 1, 1900

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THE DEPARTMENT OF DOMESTIC SCIENCE.

Staff of Instruction.

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A. B., Smith College, 1887; Ph. D., University of Chicago, 1897. Graduate student in Sociology, Smith College, 1887-88; Graduate student in Sociology and Sanitary Science, University of Chicago, 1893-96; Instructor, Dearborn Seminary, Chicago, 1887-93 and 1894-99. Present position since 1899.

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A. B., West Virginia University, 1898. Graduate student in Domestic Science, Lewis Institute, Chicago, 1899-1900.

THE DOMESTIC SCIENCE COURSE.

The unique functions of the home and its importance as a fundamental social institution render its effective organization one of the greatest social tasks. Domestic Science has for its province the correlation of such knowledge bearing on this task as has been gained by the sciences of Sociology, Economics, Physics, Chemistry, Biology, and Sanitation, and its application in the household arts. To this end it considers such problems as: the conditions necessary for a sanitary home, the soil, ventilation, sewerage, heating, etc.; the selection of food with reference to its nutritive and economic value, and its proper preparation; economic domestic administration, family budgets, domestic service; and the sanitation of groups of homes, i. e., communities and states.

Throughout the country there is a growing interest in the subject of healthful living, its conditions, and the means of fulfilling them. Intelligent men and women are asking questions and seeking directions, but there are as yet few who can satisfy them, because few have studied the subject. Thoroughly trained students in this department are being vainly sought as teachers in public and private schools and in colleges, as officers of administration in charitable institutions, as directors of diet kitchens, as members of school boards and village improvement societies, as philanthropic workers, and as sanitary inspectors. This demand the University can now satisfy to some extent by offering a course which affords an opportunity to secure thorough preparation for such positions.

The department offers work to two classes of students: first, those who desire to take advantage of such openings as those referred to above, and who therefore make Domestic Science their major subject during a four years course; and second, those who simply wish to take one or more courses in the subject as electives. The first group will lay the foundations for the applied work in Domestic Science, in a broad study of natural science, together with modern languages, History and Sociology. The second group may elect freely the courses they desire.

The department is supplied with all needed reference books and periodicals, the Pratt Institute food charts and food museum, and a well equipped laboratory kitchen.

ADMISSION TO THE DOMESTIC SCIENCE COURSE.

The conditions of admission to the Domestic Science Course are the same as for admission to the other courses leading to the degree of Bachelor of Arts; but students who wish to take the Domestic Science Course are advised to shape their preparatory course so as to include the following courses:

English,	9 courses;
Latin,	3 courses;
German,	6 courses;
French,	6 courses;
History,	2 courses;
Civics,	1 course;
Mathematics,	5 courses;
Physics,	2 courses;
Chemistry,	3 courses;
Botany,	2 courses:
Total,	39 courses.

Preparatory Schedule.

This preparatory work can be taken according to the following schedule:

HOUR	FALL	WINTER	SPRING
		FIRST YEAR.	
8:00	Algebra 1	Algebra 2	Algebra 3
9:00	English 1	English 2	English 3
11:00	Latin 1	Latin 2	Latin 3
		SECOND YEAR.	
8:00			Plane Geometry 1
9:00	English History	U. S. History	Civics
10:00	English 4	English 5	English 6
11:00	French 1	French 2	French 3
		THIRD YEAR.	
9:00	German 1	German 2	German 3
10:00	French 4	French 5	French 6
11:00	Plane Geometry 2	Physics 1	Physics 2
		FOURTH YEAR.	
8:00	German 4	German 5	German 6
9:00	Chemistry 1	Chemistry 2	Chemistry 3
10:00	English 7	English 8	English 9
1:30		Botany 1	Botany 2

While real equivalents will be accepted for admission to college as substitutes for the above preparatory studies, the college course in Domestic Science outlined below is arranged for students who have had the preparatory studies mentioned above. College students in the Domestic Science course who have not presented for admission to college all the above preparatory studies will substitute for some of the studies in the Domestic Science course outlined below the above preparatory studies which they have not previously had.

DESCRIPTION OF PREPARATORY COURSES

For the Domestic Science Course

As given in the Preparatory School at Morgantown.

English.

PROFESSOR MILLER AND MR. FRIEND.

FIRST YEAR.

1 Grammar. Harvey's Grammar, with careful drill in orthography, punctuation, etc. Fall, first section, 8:00; second section, 9:00; 10 M.

2 Grammar. Whitney's "Essentials of Grammar." Winter, first section, 8:00; second section, 9:00; 10 M.

3 Composition. Reed and Kellogg's "Higher Lessons in English" to Lesson 112, with oral analysis and especial attention to synthetic exercises. Spring, first section, 8:00; second section, 9:00; 10 M.

SECOND YEAR.

4 Composition. Reed and Kellogg's "Higher Lessons in English," completed, with drill in composition. Fall, first section, 10:00; second section, 11:00; 10 M.

5 Composition. Buehler's "Practical Lessons in English," with critiques and reviews. Careful reading, with analysis and word study, of one of the English classics required for entrance to College. Winter, first section, 10:00; second section, 11:00; 10 M.

6 Rhetoric. Hill's "Elements of Rhetoric" to Chapter V, with one of the English classics as in Course 5. Spring, first section, 10:00; second section, 11:00; 10 M.

THIRD YEAR.

7 Rhetoric. Hill's "Elements of Rhetoric," completed, with continued drill in composition and one of the English classics as in Course 5. Fall, 10:00; 23 S.

8 Literature. Irish's "Introduction to American Literature," with careful reading of some of the English classics required for entrance to College. In this and the following course the classics are read chronologically with a study of each author among his contemporaries, and as the representative of his period in literature and history. Winter, 10:00; 23 S.

9 Literature. English Literature, including reviews and reading of the classics as in Course 8, continued. Spring, 10:00; 23 S.

Latin.

PROFESSOR HARE AND MR. BONDURANT.

FIRST YEAR.

1 Etymology. Chase and Stuart's "First Year in Latin," pages 9-125. Summer, 11:00; Fall, first section, 8:00; second section, 11:00; Winter, 8:00; Spring, 9:00; 13 M.

2 Syntax. Chase and Stuart's "First Year in Latin," pages 126-200. Summer, 8:00; Fall, 8:00; Winter, first section, 8:00; second section, 11:00; Spring, 9:00; 13 M.

3 Oratio Obliqua, and Caesar (Book I, chs. 1–29). Chase and Stuart's "First Year in Latin," completed.

Summer, 2:00; Fall, 8:00; Winter, 9:00; Spring, first section, 8:00; second section, 11:00; 13 M.

German.

PROFESSOR TRUSCOTT, DR. CARR, AND MR. PORTERFIELD.

1 Elementary German. A course for beginners, the object being to acquaint the student with the elements of grammar, to give him a reading knowledge of the easiest German prose, and as much practice in pronunciation as possible. Thomas' "Grammar," Part I; Harris' "Reader," Part I. Summer, 9:00; Fall, first section, 9:00; second section, 12:00; Winter, 11:00; 22 U.

2 Elementary German. A continuation of Course 1. Reading of easy prose and poetry. Several poems will be memorized and especial attention given to correct pronunciation. Reading at sight. Harris' Reader, Parts II, IV and VI.

Winter, first section, 9:00; second section, 12:00; Spring 11:00; 22 U.

3 Elementary German. A continuation of Course 2. Reading, and conversation. Elementary work in composition accompanied by a review of the Grammar. Storm's "Immensee." "Höher als die Kirche." "Im Zwielicht." Hatfield's "Materials for Composition." Spring, first section, 9:00; second section, 12:00; 22 U.

4 German Prose. Copious reading of German poets to render the student familiar with the idioms of the language and give him a large and varied vocabulary. Nichol's "Three German Tales." Bernhardt's "Novelleten-Bibliothek." Summer, Fall, 8:00; 22 U.

5 Composition and Conversation. Practice in written German and translation of English prose into idiomatic German. A part of the time will be devoted to exercises in conversation. "Methode Berlitz, Erstes Buch." Harris' "Prose Composition." Winter, 8:00; 22 U.

6 German Poetry. "Hermann und Dorothea." Familiar German ballads. Spring, 8:00; 22 U.

French.

PROFESSOR MCKENZIE AND MR. BALLARD.

1 Elementary Course. Grammar, reading, and as much practice as possible in pronunciation and conversation. Whitney's or Edgren's "Grammar." Super's or Whitney's "Reader."

Summer, 11:00; Fall, first section, 11:00; second section, 12:00; Spring, 9:00; 10 U.

2 Elementary Course. A continuation of Course 1. The Grammar and the Reader will be finished, and the reading of easy French texts continued. Summer, 9:00;

Winter, first section, 11:00; second section, 12:00; 10 U.

3 Modern Prose. A continuation of Course 2. Reading from works by Erckmann-Chatrian, Enault, George Sand, etc.; Grandgent's "Materials for French Composition." It is expected that in Courses 1, 2 and 3 the elements of French grammar will be mastered, a fair pronunciation acquired, and 450 to 500 pages of modern prose and poetry read.

Spring, first section, 11:00; second section, 12:00; 10 U.

4 Fiction of the Nineteenth Century. Works by Daudet, Dumas, About, etc.; La Fontaine's "Fables." Practice in writing and speaking French, continued through Courses 5 and 6. For students who have had one year of French. Summer, Fall, 10:00; 10 U.

5 Historical and Dramatic Works of the Nineteenth Century. Works of Michelet, Paileron, Dumas, Scribe, Victor Hugo.

Winter, 10:00; 10 U.

6 Dramas of the Seventeenth Century. Corneille, Racine, Moliere. Spring, 10:00; 10 U.

NOTE.—Courses 4, 5 and 6 are continuous, and it is recommended that they be taken in this order; qualified students will, however, be admitted to Course 5 or 6 without having had the course preceding.

History.

PROFESSOR FAST AND ASSOCIATE PROFESSOR DANIELS.

5 History of England. This course will outline the history of England from the Teutonic settlements to the present time. Fall, 9:00.

6 Outlines of United States History. A general course of narrative and political history required for admission to all the other courses in American History. Fiske's "History of the United States."

Winter, 9:00; 6 M.

Civics.

PROFESSOR FAST.

1 Civil Government in the United States. A course with special reference to the origin of types of local government in the United States, embracing an outline of state and federal government. Two pieces of written work, prepared from material in the library, will be required: (a) a phase of colonial government; (b) a phase of local government. Fiske's "Civil Government in the United States."

Spring, 9:00.

Algebra.

ASSISTANT PROFESSOR THOMPSON AND MR. JOHNSON.

1 Algebra, up to and including Simple Equations. Charles Smith's "Elementary Algebra." Fall, 8:00; Winter, 11:00; Spring, 9:00.

2 Algebra, up to and including Quadratics. Charles Smith's "Elementary Algebra." Fall, 8:00; Winter, 8:00; Spring, 11:00.

3 Algebra, including Progressions and Logarithms. Charles Smith's "Elementary Algebra." Winter, 8:00; Spring, 8:00.

Plane Geometry.

ASSISTANT PROFESSOR THOMPSON

1 Plane Geometry. The first two books. Wentworth's "Plane Geometry." Fall, 9:00; Spring, 8:00.

2 Plane Geometry. Completed. Wentworth's "Plane Geometry." Fall, 11:00; Winter, 9:00.

Physics.

PROFESSOR HODGES AND MR. WHITHAM.

1 Elementary Physics. Mechanics and Heat. Recitations, supplemented by experiments and laboratory exercises. One hour per week at least will be devoted to individual laboratory work. Wentworth and Hill's "Text Book of Physics." Prerequisite, Plane Geometry. Winter, 11:00; 11 S.

2 Elementary Physics. Electricity and Magnetism. Sound and Light. Continuation of Course 1. Spring, 11:00; 11 S.

Courses 1 and 2 will satisfy the entrance requirements in Physics. Students in the College who have not presented work in Physics among their entrance subjects may receive college credit for these courses.

Chemistry.

PROFESSOR WHITEHILL AND ASSISTANT PROFESSOR FOLIN.

1 Inorganic Chemistry. This course is designed for beginners, and serves as a general introduction to chemical methods and operations. It includes a systematic study of the laws of chemical combinations, the source, preparation, properties and compounds of the non-metallic elements and the principles and theories of chemical philosophy. Experimental lectures, laboratory work and recitations.

Summer, 10:00; Fall, 9:00; Spring, 10:00; 20 S.

2 Inorganic Chemistry. This course includes the study of the metallic elements, and special attention is paid to the application of Chemistry in Agriculture, Engineering, Medicine, and every-day life. Lectures, laboratory work and recitations.

Summer, Winter, 9:00; Fall, 10:00; 20 S.

3 Organic Chemistry. This course includes the study of the more important organic compounds, together with the laboratory processes for the preparation of such compounds. Lectures, laboratory work and recitations. Spring, 9:00; 20 S.

Botany.

ASSISTANT PROFESSOR COPELAND.

1 Elementary Laboratory Botany. This is very largely a laboratory course, with dissecting and compound microscopes, and including some simple experiments. A text book will be used only for a general guide. Fall, Winter.

2 Elementary Field Botany. This course is chiefly outdoor work, and will include practice in the determination of vascular plants. Spring, Summer.

Courses 1 and 2 may both be presented for entrance credit in Botany. Either may precede the other, but they should be taken in successive terms.

THE DOMESTIC SCIENCE COURSE

Leading to the Degree of A. B.

First Year.

	Fall	Winter	Spring
8:00	Zoölogy 1	Zoölogy 2	Zoölogy 3 and 4
11:00	History 7	History 8	History 9
1:30	M. & W. Physics 4	Physics 4	Physics 4
1:30	T. & Th. Chemistry 4	Chemistry 5	Chemistry 8
4:00	Phys. Training	Phys. Training	Phys. Training

Second Year.

10:00	Phys. Chemistry 11	Phys. Chemistry 12	Phys. Chemisty 13
12:00	History 11	History 12	History 18
1:30	Botany 3	Botany 4	Botany 5
4:00	Phys. Training	Phys. Training	Phys. Training

Third Year.

8:00			Rhetoric 1
9:00	Economics 1	Economics 2	
11:00	Domestic Science 1	Domestic Science 2	Domestic Science 3
12:00	Gen. Physiology 1	Gen. Physiology 2	Gen. Physiology 3
2:00	M. & W. Dom. Sci. 4	Domestic Science 5	
2:00	T. & Th. Dom. Sci. 7	Domestic Science 8	
4:00	Phys. Training	Phys. Training	Phys. Training

Fourth Year.

8:00	Sociology 1	Sociology 2	Sociology 3
9:00	Sociology 5	Sociology 6	Sociology 7
10:00	Domestic Science 6	Sociology 8	Domestic Science 9
11:00		Rhetoric 2	English Lit. 2

The course outlined above may be varied to meet individual needs; but students who make Domestic Science their major study are advised to follow it as nearly as possible.

DESCRIPTION OF COURSES.

Included in the Domestic Science Course.

Rhetoric.

PROFESSOR PATTERSON AND MR. SMITH.

1 Composition. The work is almost wholly practical. Daily themes. Critiques in class. A number of book reviews and three long essays. In addition to the text-book work, special study of several prose masterpieces. It is intended that the student shall obtain a thorough practical knowledge of all matters of rule. Lectures.

Summer, Fall, 11:00; Spring, 8:00.

2 Rhetoric. In this course special attention is given to matters of taste. The student is required to read and make written reports upon a large number of masterpieces. Long essays. Extempore composition and criticism. Class study of several literary masterpieces. Lectures. In this quarter the professor endeavors to meet each member of the class as often as possible for consultation. Prerequisite, Rhetoric 1.

Winter, 11:00.

English Language and Literature.

PROFESSOR ARMSTRONG AND MR. HOLDEN.

2 General Survey of English Literature. This course is intended to be an introduction to the study of literature. Its purpose is to give the student a conception of the nature of literature, a general knowledge of the great field of literature, and a definite knowledge of a few English classics. Recitations and critiques on assigned readings. Brooke's "History of English Literature," and copies of complete masterpieces. Prerequisites, Rhetoric 1 and 2. Professor Armstrong. Summer, 11:00.

Mr. Holden. Fall, Spring, 11:00; 20 M.

History.

7 History of Greece. This course will trace the history of Greece from the beginning of the Persian wars to the Roman Conquest. The mythology of the Greeks, the contributions of earlier nations to the Greek civilization, will be treated in preliminary lectures. An effort will be made to give the students by means of lectures and collateral readings some acquaintance with the literature, philosophy and art of the Greeks.

Fall, 11:00; 4 M.

8 History of Rome. In this course a brief outline will be given of the development of the Roman Republic previous to the second century. In tracing the subsequent history of the republic, the following topics will receive special attention: the Agrarian question; the development of the Roman provincial system; the influence of Hellenism; the development of the popular and conservative parties, and the party struggles to the death of Caesar. In the history of the empire the following topics will be considered: the organization of the empire; the army; the rise of the Christian church; economic conditions; the frontiers and the contact of the empire with the barbarians.

Winter, 11:00; 4 M.

9 Mediæval History; The Rule of the Teutons. In this course an attempt is made, first, to picture the condition of the Roman Empire in the fourth, fifth and sixth centuries of the Christian era; next, to present the primitive life and institutions of our Teutonic ancestors; and then, with the career of the Frankish tribes as the central thread of the story, the history of Catholic Christian Europe down to the Renaissance is studied. Spring, 11:00; 4 M.

11 History of English Political Institutions. In this course a study will be made of the development of English political institutions under the following general heads: Anglo-Saxon institutions; feudal development in the pre-Norman and Norman periods; the administrative system under the Norman and Plantagenet Kings; the development of the representative system in the 13th century; the increase in parliamentary power during the 14th and the causes of the decline in the 15th century. Fall, 12:00; 4 M.

12 English Political Institutions. A continuation of course 11. The topics to be considered are: causes and character of the Tudor absolutism; the revival of parliamentary independence in the latter half of the 16th century; the struggle between King and Parliament under the Stuarts; the Revolution Settlement; the development of the ministerial government; and the relation between England and her colonies. Winter, 12:00; 4 M.

18 History of Europe since 1815. In this course a study will be made first of the conditions at the beginning of the period and the settlements effected by the Congress of Vienna. The history of each country will then be traced with special reference to the working out of the principles of constitutional government and nationality. Spring, 12:00; 4 M.

Sociology.

PRESIDENT RAYMOND AND ASSISTANT PROFESSOR CLARK.

1 Anthropology. An elementary course on man as the unit of society, and on the evolution of society and social institutions. The general purpose of the course is to point out how man has developed into his present social state, what the influences were which caused this development, and how these influences themselves have evolved. The general subjects discussed are: first, the antiquity of man, and the place man occupies in nature; second, the origin and early development of institutions which have made man what he is, and upon which contemporary society is based, such as language and writing, the arts of life and of pleasure, religion and science, mythology and history, the family and social structure. Tylor's "Anthropology," supplemented by lectures and assigned readings. Summer, Fall, 8:00; 10 S.

2 Ethnology. A course on the races of mankind, with special reference to the social institutions of various peoples. The physical and mental differences of races are discussed; the various peoples of the world are classified; and the most important ethnographic problems are considered. Keane's "Ethnology" is used by the class, supplemented by lectures and the investigation of assigned topics. Prerequisite, Anthropology. Winter, 8:00; 10 S.

3 Elements of Sociology. A course on the structure and functions of contemporary society. Existing society is studied as an objective reality, the student's own world being his laboratory. The course begins with a series of elementary lectures on the methods of scientific social study; the relation of the individual to society; the social organism; the physical and psychical bases of society; the social forces; the field of sociology and its relation to social reform. Meanwhile the individual members of the class have been assigned certain social institutions for personal observation and study, upon which they report fully in the class. The purpose is to bring out prominently the leading features in the associated life of human beings as it actually exists. Lectures, assigned readings and reports. Prerequisites, Anthropology and Economics 1 and 2. Spring, 8:00; 10 S.

5 Contemporary Charities. The causes and conditions of poverty, methods of relief, historical and contemporary; special classes, children, the aged, unemployed, defective; charity organization. Warner's "American Charities." Lectures, research work.
Assistant Professor Clark. Fall, 9:00.

6 The Treatment of Delinquents. Causes of crime, criminal anthropology, history of methods of treatment, preventive measures, juvenile delinquents, legal factors. Lectures and assigned topics.
Assistant Professor Clark. Winter, 9:00.

7 Social Movements of the Nineteenth Century. A study of organized efforts for social betterment, their principles and results. This includes the investigation of movements affecting every phase of social life, hygienic, economic, artistic, educational, religious. Lectures, readings, and the development of assigned topics.
Assistant Professor Clark. Spring, 9:00.

8 The Family. The historical development of the family; its significance as a social institution; its organization; pathological conditions and suggested remedies. Assistant Professor Clark. Spring, 10:00.

Economics.

PRESIDENT RAYMOND.

1 Historical Introduction to Economics. A course in Economic History, designed to furnish a basis for the study of economic principles. The aim is to familiarize the student with the main facts in the development of modern industrial society before he begins to theorize about them. Gibbins' "Industrial History of England" will be used as a guide with supplementary assigned readings. Fall, 9:00.

2 Principles of Economics. An exposition of the fundamental laws of Political Economy. This is an elementary course, prerequisite to all advanced work in Economics. Ely's "Outlines of Economics," supplemented by lectures and assigned readings in the library.
Summer, Winter, 9:00; 10 S.

Physics.

PROFESSOR HODGES AND MR. WHITHAM.

4 Experimental Physics. A laboratory course exclusively, consisting of elementary quantitative experiments. Open to students who do not take Course 6. Sabine's "Laboratory Course in Physics."

Prerequisites, Physics 1 and 2, and Plane Trigonometry.

Full course, Summer, 2:00; 1 S.

May be taken in the Fall, Winter and Spring quarters, one-third course each quarter. Mondays, Wednesdays, 1:30; 1 S.

Chemistry.

PROFESSOR WHITEHILL AND ASSISTANT PROFESSOR FOLIN.

4 Qualitative Analysis. A laboratory course designed for students who are familiar with the elementary principles of Chemistry. It includes the preparation of the more important gases and salts, and the detection of the elements and their compounds.

Half course, first five weeks, Summer, 2:00;
One-third course, Fall, Tuesdays, Thursdays, 1:30; 22 S.

5 Elementary Quantitative Analysis. This course includes a small number of simple gravimetric, volumetric, and electrolytic determinations, together with the study of the operations involved. Laboratory course. Half course, second five weeks, Summer, 2:00;
One-third course, Winter, Tuesdays, Thursdays, 1:30; 22 S.

6 Water and Food Analysis. Analytical Chemistry as applied to domestic science. This course is in part identical with Course 8, but includes analysis of water and of foods.

Spring, Tuesdays and Thursdays, 1:30; 21, 22 S.

11 Medical Organic Chemistry. This is a lecture and laboratory course in such special subjects of Organic Chemistry as carbohydrates, fats, proteins, and foods in general, together with certain organic amido and other nitrogenous compounds. Fall, 10:00 to 12:00; 21 S.

12 Physiological Chemistry. This course is a continuation of Course 11 and includes lectures and laboratory work on ferments, digestion, respiration, nutrition and general animal metabolism.

Winter, 10:00 to 12:00; 21 S.

13. Physiological Chemistry. This course is a continuation of Course 12. Spring, 10:00 to 12:00; 21 S.

Zoölogy.

ASSISTANT PROFESSOR J. B. JOHNSTON.

1 Elementary Zoölogy. A study of types (Amoeba, Paramoecium, Sponge, Hydra, Earth worm) of the lower classes of animals with reference to structure, functions, and relationships, and of the cell and cell division. Laboratory work supplemented by lectures on the physiology of the cell.

Prerequisites: Two courses in Preparatory English Composition and Rhetoric, or satisfactory evidence of ability to write clear, forcible English.

Parker: Elementary Biology.
Wilson: The Cell in Development and Inheritance.
Hertwig: The Cell.

Hertwig : Zoölogy, Field's Translation.
Wilson : Chapters on Evolution.
Sedgwick and Wilson : Elementary Biology.
Fall, Lectures T., Th., at 10. Laboratory work six hours a week.

2 Introduction to Vertebrate Zoölogy. The structure and development of the frog, and the classification of vertebrates. This course should be taken by prospective medical students and by those intending to give especial attention to vertebrate zoölogy, during their first year of zoölogical work. Prerequisite, course 1.

Ecker's Frog, (preferably Gaup's edition).
Marshall : Embryology.
Macalaster : Zoölogy.
Parker and Haswell : Zoölogy, Vol. II.
Winter, Lectures T., Th., at 10. Laboratory work six hours a week.

3 The Evolution of Species. A presentation of the evidences of evolution, with an account of the current theories. Illustrated lectures and reading. This course may be taken as an introduction to all other courses in Zoölogy, or in the third quarter of the first year's work. It counts as a half course and may advantageously accompany course 4.

Spring, two lectures a week at an evening hour.

4 Field Work. Field excursions and laboratory work with reading and occasional lectures on the principles of classification and the distribution of animals. The work will consist of the collection, identification and preservation of specimens of the local fauna, and recording observations on the habits, and time and place of occurrence of animals in the vicinity of Morgantown. The aim will be to interest the students in the general problems of Zoölogy and in the materials and methods for their solution. 2 U.

Half course, designed to accompany course 3 in the third quarter of the first year's work, but may be taken to advantage at any subsequent time. Spring. Hours to be arranged.

Botany.

ASSISTANT PROFESSOR COPELAND.

3 The Algæ. The algæ will be studied along physiological as well as morphological lines. Being the simplest typical plants they are well adapted to serve as material for a thorough introductory study of the plant cell. One or two lectures weekly and eight or six hours laboratory work with microscope. Fall.

4 Fungi and Bryophytes. A study of the morphology and taxonomy of these groups. One lecture and eight hours laboratory work. Prerequisite, course 3. Winter.

5 The Vascular Plants. This course will be in considerable part laboratory work, bringing out the relation of the flowering plants to the lower groups, with some field work. One lecture weekly, and four laboratory periods. Prerequisite, course 4. Spring.

Physiology.

1 **General Physiology.** This course will treat of the fundamental principles underlying the functions of the cell, proceeding to cell aggregates or tissues, the blood, and the circulation. Fall, 12:00.

2 **General Physiology.** The functions of the lungs, of the alimentary tract, and of the excretory organs will be studied. Winter, 12:00.

3 **General Physiology.** The nervous system, the special senses and the physiology of reproduction will be treated during the third quarter of the year. Spring, 12:00.

Domestic Science.

ASSISTANT PROFESSOR CLARK AND MISS MORELAND.

1 **General Hygiene.** This is introductory to course 2, though complete in itself. Questions relating to the health of the individual are considered: the care of lungs, skin, eyes, digestion, the development of the body by indoor and outdoor exercise, the conservation of nervous and muscular force, and the conditions favorable for physical and intellectual work. Lectures and assigned readings. Fall, 11:00.

2 **Home Sanitation.** The house: site, architecture, construction, plumbing and sewerage, heating, lighting and ventilation, furnishing, decorating, cleaning. Lectures, topical investigation and inspection of houses. Winter, 11:00.

3 **Public Hygiene.** Among the subjects discussed are: the care of streets and alleys, system of sewage and garbage disposal, the inspection of food supplies, the prevention of epidemics, building and plumbing regulations, sanitary regulations. Lectures and research work. Spring, 11:00.

4 **Food Materials.** The sources of food supplies, composition and nutritive value of foods; adulterations. Lectures with the use of charts, models, etc. Half course. Summer, 1900, 12:00. Fall, M. & W. 2:00. Spring, M. & W. 2:00.

5. **Selection of Foods.** A continuation of course 4. The cost of food materials, national foods, dietaries, the chemistry of the preparation of food. Prerequisite, Domestic Science 4. Half course. Winter, M. & W., 2:00.

6 **Household Economics.** The organization of the household, domestic service, household expenditure, comparative study of family budgets, marketing. Fall, 10:00.

7 **Principles of Cooking.** This course is intended to illustrate the application of heat to foods and to show the value of the staple foods. Course 4 must accompany this. Half course. Summer, 1900, 2:00. Fall, T. and Th., 2:00. Spring, T. & Th., 2:00.

8 **Advanced Cooking.** A continuation of course 7. The preparation of more elaborate dishes and of entire meals. Prerequisite, Domestic Science 7. Course 5 must accompany this. Half course. Winter, T. & Th., 2:00.

9 **Household Art and Architecture.** The principles of house architecture with historical illustrations; the examination of house plans with reference to their beauty and convenience; a study of decoration and furniture. Spring, 10:00.