

The Technician

N. C. State College of Agriculture and Engineering

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STATE COLLEGE STATION, RALEIGH, N. C., JUNE 1, 1923

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STATE SUMMER SCHOOL WILL OFFER VARIETY OF COURSES

Additional Courses and Teachers Will Make State's Summer School Even More Attractive Than Heretofore.

The State College Summer School has this year added several new courses, and has obtained the services of instructors not heretofore obtainable here. The great growth of the Summer School has shown that it is filling a need in the State, and no efforts are being spared to make it better all the time. Almost a thousand students registered last year, and many more are expected this year. While most of those attending the Summer session are teachers, there are a great many of the students desiring courses in college credits, in agricultural subjects, cotton classing, and so on. Demonstration courses will be arranged for many of the elementary studies. These demonstration courses will be given in an effort to teach the teachers the most suitable methods of presentation of those subjects being taken. In this way highly skilled teachers are produced for the primary and elementary grades, where

(Continued on page 3.)

GRAMMAR GRADE COURSES WILL BE WELL HANDLED

Importance of Grammar Grade Work Is Coming to Be Realized More and More—Competent Teachers Needed

It would be audacious to say that any particular part of the public school system is most vital or important. But probably the higher elementary grades offer the greatest challenge to teaching personality. In comparison, the primary child is more interested and eager to work with the teacher, and the high school pupil has at least some small idea of the service of the school. In the higher elementary grades we find a group with the most varied out-of-school interests. The pupils in these grades are probably the most heterogeneous in the school system. Ma-

(Continued on page 5.)

SPECIAL WORK FOR TEACHERS OF VOCATIONAL AGRICULTURE

Agricultural Teachers in High School Will Find Exceptional Opportunity for Specialized Training.

The courses in vocational agriculture are organized especially to meet the needs of teachers of agriculture.

Prof. W. H. Darst, head of the Farm Crops Department, will offer a course in legumes and grasses. This department has splendid facilities for giving such a course. Students will be given an opportunity to gather and classify, and in some cases to preserve plant specimens for their schools. Emphasis will be put on the adaptation, use, production and marketing of legumes and grasses. Students will get practice in the study and identification of forage plants and their seeds, using growing and dried specimens in the field and laboratory. The fact that this course will be given during the growing season is a decided advantage.

A farmer without a good knowledge of the operation of farm machinery is decidedly handicapped in modern farming. Teachers of agri-

(Continued on page 5.)

STATE SUMMER SCHOOL WILL HAVE GOOD BAND

Members of Famous College Band Will Form Nucleus About Which Summer Band May Be Built

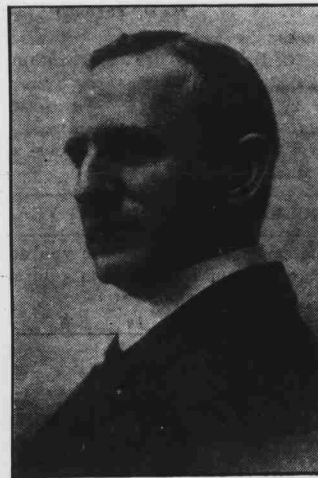
During the coming session of the Summer School a band will be organized among the students. Here at State College there are about \$5,000 worth of musical instruments which can be used for this purpose. The following instruments will be available for use: Bass horns, melophones, saxophones, clarinets, slide trombones, cornets, baritones, and drums.

The nucleus of the famous State College Band will be here during the Summer School, around which can be built a band of which all students of the Summer School may

(Continued on page 3.)



DR. W. C. RIDDICK
President of the College



DR. W. A. WITHERS
Director Summer School

Why Teachers Should Attend Summer Schools

By E. C. Brooks, State Superintendent of Public Instruction

A well-qualified teacher should receive a higher salary than one poorly qualified. This is not only fair as a general principle, but our salary schedule is worked out with this principle in view. The new school law states specifically that "The county superintendent shall not approve the voucher of any teacher for a salary higher than that provided in salary schedules, unless by action of the county board of education or the board of trustees of the city schools a higher salary is allowed for special fitness, special duties, or under extraordinary circumstances. Whenever a higher salary is thus allowed, the minutes of the board shall show what salary is allowed and the reasons for the same."

It was the purpose of our lawmakers to provide a fair salary for the well-qualified teachers, and at the same time make provisions for those not so well qualified to raise their certificates. At the same time the General Assembly recognized that those who hold the county second-grade certificates are not sufficiently qualified, as a rule, to render good service. Therefore, it provided in the new law that "The superintendent shall not approve the selection of a teacher holding a second- or third-grade certificate, unless it is impracticable to secure a resident teacher who holds a higher certificate." All such teachers, therefore, should seek at once to improve their standing by attending summer school. Moreover, teachers holding State certificates may have their certificates raised by attending summer school. Four summer schools are the equivalent of one year of college work, and this is sufficient to raise the certificate to a higher grade. The value, therefore, of the summer school is found in the improved instruction in the school room, in the increased interest the patrons are taking in the education of their children, and in a higher compensation for teachers who really wish to serve the State in the best possible way.—N. C. Education.

The Technician

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EDITORIAL

Better watch these summer schools. Summer before last three couples got married.

We have always boasted of our hospitality. Only recently we have been entertaining an idea.

That farm we bought out here in the country ought to be rich. We put all our money into it.

These summer schools are nice things to dust out one's brains. Sort of vacuum cleaners—what?

The old-fashioned boy used to believe everything his father told him. But the fathers were old-fashioned then, too.

We received a letter not long since which informed us that for private use we would be fined \$300, so we had it read in church.

Nature is kind, after all. Although she hands us our forms and faces without question, she at least allows us to pick our teeth.

The campus has more automobile visitors during the summer than at any other season. This is probably due to the increased foliage.

Wonder why they keep making this stir about capital punishment? It was good enough for our fathers, and is good enough for us.

Raleigh's new mayor is a State graduate. It is said that he is one of the youngest and best looking mayors in the State. And he is a widower.

When we proposed, she asked us if we could support her as well as her father. Well, we could, but we don't care about going around as shabbily dressed as he has to.

All the benches here on the campus were made by a bachelor, and are long enough to hold three. Plans are now under way for securing seats of the proper length.

THE GREATEST ATTRACTION

One of the most interesting features of the Summer School is the custom of having tours of all the places in and about Raleigh which will prove of interest to the students. These tours are conducted personally by Col. Fred A. Olds, Director of the North Carolina Hall of History. His great knowledge of places of interest, and his equally great interest in the Summer School students, combine to make his tours one of the most attractive features of the Summer session.

A DISTINCT SERVICE

One of the most attractive features of the Summer School is the service given prospective teachers through the Teachers' Placement Bureau. Through this bureau, teachers desiring positions are enabled to get in touch with prospective employers, and thus to secure attractive positions. By getting in touch with this department, the teachers automatically place themselves in line for the most desirable positions, as the service is not only free to them, but is also free to those wishing to obtain teachers, thus making it the first means usually used for getting teachers.

Last year the demand for teachers through the Bureau far exceeded the number using it as a medium. There is little doubt that many of those who were not registered in this department would have been benefited very much in obtaining positions had they used its advantages. Those wishing this service are urged to place their names on its list as early as possible after registration.

THE PLACE OF THE SUMMER SCHOOL

Up until recently, there was scarcely such a thing heard of as a Summer School. But with the coming of highly specialized teaching there arose a need of a training for teachers which should keep their teachings and methods thoroughly up-to-date. The Summer School was the natural solution of the problem, and for seven years State College has been carrying its share of the Summer School work, having almost a thousand students last year. The exceedingly large attendance at the Summer session is sufficient testimony as to whether or not it is filling a need. The Summer School is here to stay, and is growing rapidly all the time. It not only offers courses for those already teaching or those desiring to teach, but it gives courses for College Credit, and for those interested in industrial training. Due to the fact that at the time of the Summer session the colleges and universities throughout the country are not in session, the services of the most competent instructors are at all times obtainable. This, within itself, is one of the many reasons for the great popularity and service of the Summer School. Withal, it is filling an urgent need, and filling it worthily.

RALEIGH, THE BEAUTIFUL

The really wide-awake Summer School student does not think only of the courses offered in which he or she wishes to major, but also considers very much the recreational and educational advantages offered in the particular vicinity of the Summer School. Because of this, the State College Summer School offers unusual attractions to really worthwhile students. Raleigh is the Capital of North Carolina, and for that reason alone will offer many inducements to North Carolinians. In its borders are found several of the more important of the State institutions. There is the Hall of History, with its marvelous collection of relics of North Carolina's part in colonial and national history. Visit after visit is all insufficient to learn of its many interesting mementos of former times. Its director, Col. F. A. Olds, is at all times ready and anxious to point out its many interesting features, and to do any other inspection tours in and around Raleigh that may be demanded.

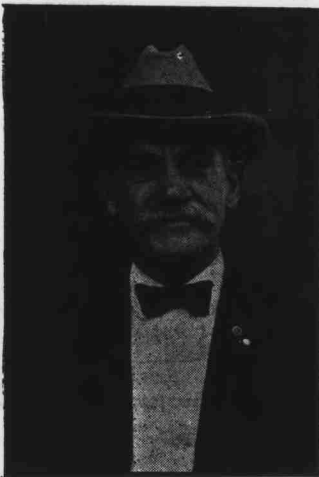
Then there is the State Capitol, with its square of fine old trees, its beautiful walkways, and numerous frisking squirrels. Inside, there are the busts of North Carolina's notables, gathered about the center. Above, there are the halls of the Senate and House of Representatives. Outside again there are statues of our own Tar Heel heroes, both of the pen and the sword. Some of the statues were built by the aid of contributions from the myriads of school children all over the State.

There is the State Museum, with all of its interesting collections of animal and vegetable life, past and present, from all over the State. In its halls one gets a real appreciation of what his State is, and of its history and possibilities, as well as hours of enjoyment from the seeing of things not seen, and in many cases not heard of, before.

Raleigh has many educational institutions which will be of interest to school workers throughout the borders of the State. In addition to State College, there is the Baptist institution, Meredith College; the Presbyterian institution, Peace Institute, and that of the Episcopalians, St. Mary's School. There are, in addition to those just mentioned, two colored colleges, as well as the various local schools and business colleges.

Here the State has most of its institutions for the unfortunate within its bounds. There is the Old Soldiers' Home, with its old gray-haired heroes of the South. There are the School for the Blind, the State Hospital and the State Prison. Just outside, one also finds the orphanages of the Methodists and Catholics.

Raleigh has some of the most beautiful residential sections of any town of like dimensions in the South. From the ends of its streets one enters a most prosperous and beautiful rural district. The roads, many of them hard-surfaced, seem to invite one out into the free country air. Raleigh is symbolical of the wealth and beauty of North Carolina. To know it is an education within itself.



COL. FRED A. OLDS
Director of Tours

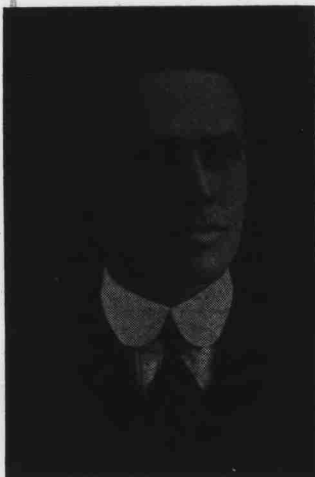
"Hey there, Colonel! What are you doing?"
"Waiting for the Summer School girls."

**State Summer School
Will Have Good Band**

(Continued from page 1.)

be justly proud. Band music should appeal to teachers, as this sort of music is coming more and more into use in our secondary schools; therefore the more knowledge a teacher can have of it, the better equipped he or she will be to take charge of this line of music. All those desiring to join the band should, during the first two or three days of the opening of the school, see Capt. P. W. Price. The band room used by the State College Band will be open during registration day.

During the last two or three weeks of Summer School trips will be taken to the other summer schools in the State. These trips will be arranged



MR. JOHN C. LOCKHART
Superintendent of Public Instruction,
Wake County, and Director
County Summer School

so as not to interfere with the work of the school.

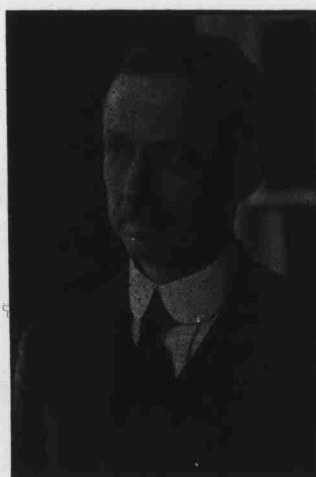
Captain Price

**State Summer School Will
Offer Variety of Courses**

(Continued from page 1.)

it is most important that the student get the firm grasp of his subject.

Special courses will be given for obtaining certificates, or for getting certificates of a higher degree. These courses are already largely mapped out, and therefore offer an easy method of getting the desired certificate. College credit courses are especially interesting to college students having conditions, or to those wishing to enter college with the required units of previous preparation. The agricultural courses are in the main intended for those who wish to take up teaching in agricultural high



DR. T. P. HARRISON
Dean of College and Advisor to those
taking College Credit Courses

schools. The cotton classing courses are especially prepared for those wishing training of this kind. The importance of the work of cotton classing is becoming more and more important all the time, and there is a great demand for men trained in classing.

Only a limited number of graduate courses will be given for ad-



MR. A. F. BOWEN
Treasurer

vanced work, as there is not so much demand for this kind of study, and also because most of the energies of the Summer School will be put into the training of teachers.

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**Summer School Welcomed
By Raleigh's New Mayor**



HON. E. E. CULBRETH
Mayor of Raleigh

On behalf of the citizens of Raleigh, I have the honor and the pleasure of extending to you a cordial welcome to your Capital City and to the State College Summer School, which opens June 12th and continues through July 25th.

The teaching profession is a profound calling. It is bounded by unlimited opportunity for service to humanity. I do not know of a greater work, a more valuable service, a nobler purpose. It is true that less than a hundred years ago in our country educational facilities were meager, but our general progress has been so rapid, and our educational facilities have unfolded and expanded to such an extent that we have schoolhouses and teachers in every community to train and develop the tender brain of the little child.

It is the trained and efficient workman who fashions the rough and shapeless material into a beautiful statue, or a perfect sphere or cube, or is able to saw straight a twelve-inch line without a mark, or to spread on canvas blending colors,

or to bring forth melody from a musical instrument. It requires unlimited study and untiring practice. It is with this in mind that I commend you for the step you are taking to better equip yourself.

The future success of the child in your classroom depends largely on its training while under your guidance. Civilization is moving at a rapid pace. Methods and conditions appear to be changing overnight, and in many instances taking "short cuts." It is therefore very essential that all new methods be studied, that new ideas be developed. This applies to all classes of endeavor, whether it be banking, medicine, law, salesmanship, or teaching.

The Summer School is the place where many ideas and methods are brought together and put into use, or demonstrated. It is here that the teacher acquaints himself or herself with the best ideas and methods for the successful performance of the

duties in the classroom, and becomes more efficient in training and developing the intellect. The successful career of the men and women of the next generation depends in no small way upon the foundation laid today in the classroom by the efforts of the child and its teacher.

I feel sure that your stay at the Summer School will not only be of

much benefit, but will also be a pleasant one. You will have the old veteran, Col. Fred A. Olds, to pilot you on sightseeing tours, and no one knows better the places of historical interest in and about the city. We shall be glad to have you with us and assure you a most cordial welcome.

E. E. CULBRETH,
Mayor of Raleigh.

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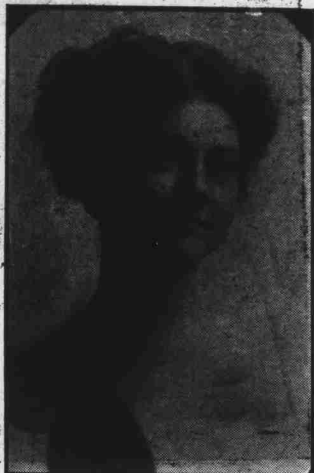
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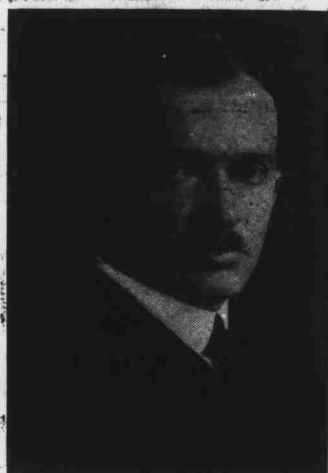
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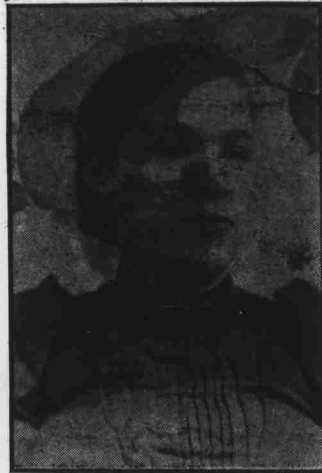
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**Special Work for Teachers
of Vocational Agriculture**

(Continued from page 1.)

culture are being called upon to help farmers with gas engine and tractor troubles as well as to aid them in adjusting and operating other farm machinery. Prof. R. E. Bosque, head of the Department of Agricultural Engineering, will give a course in farm machinery and gas engines. This course will include the selection, care, and repair of farm machinery, and will give the student an opportunity to get actual experience in the operation and care of gas engines and tractors. Some work will be given in terracing and sewage disposal systems suitable for the farm. Beekeeping, according to experts, has not been developed in this State to the extent it could be to the advantage of many farmers. Therefore a course in apiculture will be offered by Mr. J. E. Eckert of the Department of Entomology. The college has good facilities for teaching this course and it will be taught with the needs of vocational teachers in mind.

An advanced course, entitled "Special Problems in Teaching Agriculture," will be given for graduates of the Department of Vocational Education. Mr. L. O. Armstrong will have charge of this course. It will consist of special individual problems of the teachers, including the preparation and plan for next year's work and the use of surveys of the patronage area of their schools. Each student will have an opportunity to prepare a program of work specially adapted to his school and community. The course will include a consideration of classroom arrangement and equipment, the gathering and preserving of plant specimens, making illustra-

tive material, and other special problems.

Professor Cook

**Grammar Grade Courses
Will Be Well Handled**

(Continued from page 1.)

ture and immature children are thrown together for work and play wherever the school system is not large enough for special grouping of pupils. We find a great amount of retardation in these grades, and here also a large amount of elimination starts.

Even with these problems and many more of as great or greater importance, we find relatively few teachers selecting this field for special training. One commonly finds the teachers of the grammar grades, who are planning to make teaching their life work, selecting special training in primary or high school work. So, by the continued flow of inexperienced and temporary teachers into these grades, the primary training of the child is not utilized to the best advantage, and high school work is made so much more difficult. There is a great opportunity here for industrious teachers to solve problems

and improve instruction in these grades. For this work a sound training in the material already at hand is essential. The nature of the child of this age, his interests and activities, classroom management and technique, attractive subject-matter in the fundamentals, the objectives of our educational endeavor, and other professional knowledge, must form the basis of good work. The opportunity is great for the real teacher.

Courses will be offered in the present Summer School to meet the needs of teachers with varied amounts of preparation. The teacher, in selecting her courses, should

carefully consider her past preparation and experience, her present needs, and future plans.

Professor Mayer.

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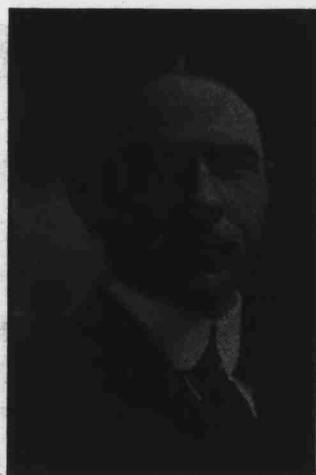
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State High School Supervisor and Ad-
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Prof. W. L. MAYER
Associate Professor of Vocational Edu-
cation and Advisor to Teachers
taking Grammar Grade Courses

State College Will Be Crowded, Although Larger

Despite Greatly Increased Dormitory
Facilities, College Will Be
Taxed to Its Fullest
Capacity

(From Alumni News.)

Applications for admission to the tenth Summer School at State College, which begins June 12 and continues through July 25, already exceed the number received at this date in any preceding year of its history, according to Dr. W. A. Withers, the director. The total enrollment last summer was 927, with 80 North Carolina counties and six other states and foreign countries represented in the registration. More than 150 applicants were unable to secure dormitory accommodations.

An additional dormitory, with space for 144, has been completed and will be available for the coming session, but even with this additional room. Dr. Withers does not anticipate being able to accommodate all who apply, and for this reason the management will limit the enrollment to 1,025, students being admitted in the order in which their applications are received.

During the summer session courses will be given for teachers and for college credit. These courses will be open alike to men and women who fulfill the requirements for admission. There will also be courses in cotton classing and a demonstration school for some of the elementary grades.

The courses for college credit are open to teachers holding standard

certificates, to graduates of standard high schools, and to those possessing equivalent training. These courses will be accepted for credit towards raising or renewing a teacher's certificate, as well as credit towards the baccalaureate degree. They may serve college students for the removal of conditions, or for enabling the student to get ahead in his work.

Cotton classing courses are arranged with the view of helping the producer to judge good staple, and to turn his attention, in consequence, to the growing of a better staple. They are also helpful to the buyer, and both buyers and producers will be admitted to the course.

The demonstration school is intended primarily to be of assistance to the members of the faculty in showing teachers the best methods of presenting a subject, interesting the pupils, and inspiring them to greater effort. Incidentally, it enables the children who are members of the school to come into contact with unusually skilled teachers. Instruction is limited to the first, second, fourth, fifth, sixth and seventh grades.

There will be special courses for vocational agricultural students fol-

lowing the general plan of those given heretofore during the summer session. There will be courses in school administration planned for superintendents, supervisors and principals. There will be general professional courses relating to high school work, to grammar grade work, and to primary work, and special professional courses relating to secondary and elementary subjects. A few graduate courses will be offered leading to advanced degrees.

Detailed information relative to various courses is contained in the catalogue of the Summer School, a copy of which may be obtained by addressing the director.

'Fessor Park: "You know, I have decided to get a patent on Barmet-
tler."

Student: "What for, 'Fessor?"
'Fessor P.: "So they can't make
another one like him."

Fahrenheit: "U. S. is shipping shoe
polish to Africa."

Centigrade: "Bet they use it for
cold cream."

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**PRIMARY GRADE WORK
NEEDS SPECIAL CARE**

Day of Idea of Unimportance of Primary Work Has Passed—The Foundations Laid at the Beginning

The day is past when the opinion prevails that "anybody can teach the primary grades." Modern schools demand as careful training and as high standards from their primary teachers as they demand of those teachers higher in the grades. The State College Summer School is making a distinct effort to meet this demand for well-trained primary teachers by offering specially selected courses for teachers interested in this field of education.

A brief study of the catalogue will impress one with the very constant use which the classes in primary education propose to make of the Demonstration School. Descriptions of the courses include such sentences as these: "Provision is made for observation each week." "Lessons in the Demonstration School will be observed and discussed." "Observation work will show methods in actual use," etc. This is merely an adaptation to teaching methods of the old adage, "Example is better than precept." Instead of a series of lectures telling how to teach a subject, direct observations of the actual teaching of this subject will be made. The discussions of method which follow will be based on actual instead of theoretical cases. Thus is the principle of teaching through concrete example emphasized.

The Demonstration School should prove particularly helpful to the young, inexperienced teacher going out for her first year's work. The grades will be in charge of experienced teachers, whose procedure will be in accord with modern educational theory. An account of the lessons observed, kept in a notebook, will give many helpful suggestions and reminders to the teacher later in the year. Questions concerning books, materials, methods, etc., will also be answered by the demonstration teachers.

In addition to helpful courses and observations concerned with the tool and content subjects, such as reading, number work, language, etc., courses in music, art, and physical education will be given. Primary teachers are urged to avail them-

selves of the opportunity for work along these lines, inasmuch as their value in early elementary education is being realized to a greater extent year by year. Courses in music appreciation, rhythmic games and plays, industrial arts, and drawing will add greatly to the effectiveness of a primary teacher's work.

A word for cultural courses, not directly related to the work of the primary school, should be spoken. Even the English literature, as such, is not included in the primary curriculum. The teacher who is familiar with the subject brings to her work a background for the interpretation of the language, reading, nature study and art work, which will enrich each of these subjects. History, psychology, sociology, biology—all of these contribute an indirect but potent influence through their broadening and cultural value to a teacher's worth. For that reason, the primary teacher is urged to take advantage, not only of those courses directly concerned with the teaching, but also of those falling outside her regular line of work, which will add to her culture and learning. In its suggested groups of courses for primary teachers, the Summer School is seeking to achieve for them a well-rounded, balanced development.

Miss Kelly

Going out to the drill field, a company of freshmen were making the

worst possible mess out of "platoons left." A cadet sergeant cast a sarcastic eye over the unhappy aggregation and then turned to Lieutenant Webb:

"Lieutenant," he said wearily, "I guess they thought you said 'balloons left,' so they all went up in the air."

The naked hills lie wanton to the breeze,

The fields are nude, the groves unfrocked,

Bare are the limbs of the shameless trees;

No wonder that the corn was shocked.

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MRS. R. W. OLIVE, Manager

Summer School Student!

A copy of *THE TECHNICIAN* has been sent you for your inspection, and we trust for your enjoyment.

It will give you an idea of the opportunities offered you during Summer School. *THE TECHNICIAN* has not been published during Summer School before. The purpose of it is to unify campus life, and to make our associations most pleasant during your stay here.

It will contain articles from time to time that will and should interest every student. When you read this copy think of it as your paper, since it is solely a student's paper. Each of you will be given an opportunity to contribute to it by writing short articles.

Colonel Olds always has great things in store for the Summer School students, and this time his schedules will be run in *THE TECHNICIAN*, which will enable him to make the most possible of his time in showing you the things of interest in and about Raleigh.

When you get on the campus ask for your copy of *THE TECHNICIAN*. It will contain data you will appreciate.

The College welcomes you here. We trust the publishing of the *THE TECHNICIAN* will enable you to realize our desire for your enjoying the stay.

L. E. RAPER,

Business Manager for *THE TECHNICIAN*.

COLLEGE CREDIT COURSES RECEIVE GREAT CARE

A Great Variety of Courses Offered
Those Seeking College Credits;
Courses Open to All
Those Interested

The Summer School for Teachers is being rapidly developed into a regular term of enriched and varied college work. Ambitious, forward-looking men and women, hitherto deprived of the advantages of systematic collegiate training, may now repair their lack of the thorough mastery of a well-rounded curriculum and the general culture of which they are keenly conscious, by attending a series of summer terms. Courses fully equal to those in the regular college session are now offered.

During the approaching summer term at State College courses for college credit will be given in the following departments: Agriculture (including Cotton Classing), Botany, Chemistry, Drawing, Education (eighteen courses), English (eight courses), French, German, History,

Mathematics (eight courses), physics, Psychology, General Science, the Textile Industry, and Wood Shop.

Surely here is a generous enough menu to please any intellectual appetite.

The vocational courses in agriculture, in wood shop, and in the textile industry are of peculiar value to all teachers in farm schools and to teachers in schools in cotton mill sections of the State. The greatest advance in education is in recognition of necessity for vocational training in the secondary schools in reaching the great body of the people in North Carolina.

The well-equipped laboratories of the college are used in the work in chemistry and physics.

An innovation in the Department of English is the course in contemporary literature. Present-day tendencies in fiction, biography, essays, and poetry will be studied.

The courses for college credit are open not only to teachers, but also to college students and to graduates of high schools who seek to remove conditions or to secure advanced credits.

It is advisable to attempt not

more than three courses for college credit. Four courses may be taken by special permission, but in any case not more than six semester units of credit will be allowed.

Dr. Harrison.

Not Exactly the Right Training

Charlie (just after his ninety-eleventh time to the board): "The old boy thought he would ride me this morning. He will have to take a course in cavalry training before he can hold me down."

"Kenneth B.": "No; you mean he needs a little training on the jack form."

Thermal Efficiency

"It is said that paper can be used effectively in keeping people warm."

That is true. I remember a note of mine that kept me in a sweat for thirty days.

But We Didn't

'Fessor Park: "Guess we will have to charge admission to the machine shop Friday."

Blockmakers: "Why, 'Fessor?"

'Fessor P.: "Just to take a look at the way a certain 'one of you boys stands up to his machine."

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