

INTENSIVE SUMMER SCIENCE PROGRAM (ISSP)

DELAWARE STATE UNIVERSITY
Dover, DE 19901

Mrs. Carolyn Krause
PROGRAM DIRECTOR
302.857.1222

Ms. Terry M. Coleman
ADMINISTRATIVE COORDINATOR
302.857.6001
302.857.6003(fax)

MEMORANDUM

TO: Parents of ISSP Applicants
FROM: Ms. Terry M. Coleman *Terry*
SUBJECT: **INTENSIVE SUMMER SCIENCE PROGRAM APPLICATION**

Attached is the 2009 application packet for the Intensive Summer Science Program (ISSP) -a four-week residential program- at Delaware State University during the period July 5, 2009 through August 1, 2009.

ISSP is a stellar program with phenomenal interest among parents within Delaware and the surrounding states of Virginia, Maryland, Pennsylvania, New Jersey, Massachusetts, North Carolina and as far as California and Texas. We accept 60 applicants only, and assure you that space is limited and on a first-come, first-served basis. Therefore, you should submit your information quickly along with your \$100 non-refundable deposit (refundable if not accepted) to secure your child's participation. Only complete application packages (all forms returned) are considered.

We are looking forward to your child's participation and request that you adhere to the deadline dates of the application. Forms A and B must be returned with the application. Form C must be received once your child has been accepted into the program. The schedule for ISSP is a rigorous one that requires a great deal of planning. To expedite the planning process and scheduling of classes, your assistance is needed in getting the science or mathematics teacher's recommendation and a most recent copy of applicant's report card to us, along with the completed application and other attached documents. All documents must be received before **May 22, 2009**.

Should you have any questions, please do not hesitate to call.

Attachments: Application Form
Housing Contract
Program Permission Slip
Physical Exam Sheet





DELAWARE STATE UNIVERSITY INTENSIVE SUMMER SCIENCE PROGRAM

PROGRAM DIRECTOR: MRS. CAROLYN KRAUSE, 302-857-1222(D) 302-697-8661(E)
PROGRAM ADMINISTRATOR: MRS. TERRY M. COLEMAN, 302-857-6001 (D)
PROGRAM COORDINATOR: MS. BRENDA KRAUSE, 302-723-1625

PURPOSE: ISSP is a four-week residential program on the campus of Delaware State University designed to: (1) provide students with hands-on experimental learning and active involvement in problem-solving activities while gaining experiences in current technology and developing awareness of the constantly changing world and (2) encourage students to make their mathematics functional by providing instruction in biology, chemistry, and physics from an interdisciplinary approach to enhance communication skills, and to demonstrate the role of the computer in preparation for careers in an information-based society.

SCOPE: Sixty (60) rising 9th, 10th, 11th, and 12th grade high school students are selected to participate in the program.

CONTENT: Activities will be specifically designed to enrich and broaden the scientific training of high school students through: 1) providing a functional understanding of scientific and mathematical principles; 2) assisting students in identifying his/her interests, abilities and limitations and 3) using the computer to increase the student's prior experiences in reading, interpreting, and communicating. ISSP is not a remediation program.

SELECTION PROCESS: Students will be selected based on the following criteria: 1) completed application with all required signatures and forms 2) high school record, 3) recommendations from teachers, 4) ability to live on the campus of Delaware State University for the duration of the program, and 5) student interest.

LOCATION: ISSP will be held on the campus of Delaware State University in Dover, DE.

COST: The cost of ISSP is \$1900 per student, which covers room, board and a technology fee. Space for participation is on a first-come, first-selected basis. Please submit a \$100 non-refundable deposit (refundable if not selected), along with application to secure space.

DATES: ISSP BEGINS JULY 5, 2009 AND ENDS AUGUST 1, 2009.

DEADLINE: Deadline for receipt of applications is May 22, 2009. PLEASE RETURN COMPLETED APPLICATION TO: MRS. TERRY M. COLEMAN, OFFICE OF THE PRESIDENT, DELAWARE STATE UNIVERSITY, 1200 N. DUPONT HIGHWAY, DOVER, DE 19901



INTENSIVE SUMMER SCIENCE PROGRAM
(A College Campus Residential Program)
APPLICATION

PLEASE PRINT OR TYPE

REQUESTED INFORMATION	REQUESTED RESPONSE
Applicant's Full Name	
E-mail Address	
Social Security Number	
Date of Birth	
Current Age	
Home Address (city, state, <u>ZIP CODE</u>)	
Name of Parent(s)/Guardian	
Parent(s) E-mail Address(es)	
Parents' Home Phone Number	
Parents' Work Phone Number	
Parents' Cell Phone Number	
Emergency Contact Phone number:	
Applicant's Last Grade Successfully Completed by 6/2009	
Name of High School	
Address of High School (city, state, and <u>ZIP CODE</u>)	
School District Location	
Name of Guidance Counselor	
Phone Number of Guidance Counselor	
Your Career Choice	
Please List Math Courses Successfully Completed as of 6/2009	
Please List Science Courses Successfully Completed as of 6/2009	

Please List Computer Courses Taken: Please circle all that apply.	Word Perfect, Word, spreadsheet, Power Point, Basic Lang., Q-Basic, V-Basic, C++, JAVA, other(s):
Use of Computer (circle one):	never, rarely, occasionally, frequently
In What Capacity? Please Circle All that apply	word processing, programming, internet, other:

Do you own a Computer? Please describe.	
Computers at your school? If yes, what type?	
If accepted into the program, will you be committed to the four weeks? If so, please sign.	
SHIRT SIZE – SM, MED, LG, XL, XXL, XXXL	

PLEASE SELECT ONE COURSE FROM THE FOLLOWING DISCIPLINES THAT YOU WOULD PREFER TO TAKE DURING ISSP. ALL NECESSARY PREREQUISITES MUST BE MET BEFORE MAKING YOUR SELECTION. (A MINIMUM OF “C” GRADE IS REQUIRED TO MEET PREREQUISITE REQUIREMENTS.) **THIS DOES NOT GUARANTEE ENROLLMENT IN THE REQUESTED COURSE. CLASSES ARE SUBJECT TO SPACE AVAILABILITY AND/OR DEMAND.** FOR SELECTIONS IN ENGLISH AND ELECTIVE COURSES, PLEASE NUMBER COURSES IN ORDER OF PREFERENCE (1 = MOST DESIRED) IN THE “CHECK BELOW” COLUMN. IF SUMMER SCHOOL OBLIGATIONS REQUIRE MORE THAN ONE COURSE IN ANY DISCIPLINE, PLEASE INDICATE WITH AN “SSR” (SUMMER SCHOOL REQUIREMENT) IN THE “CHECK BELOW” COLUMN.

CHECK BELOW	MATHEMATICS	
	MT 110 ALGEBRA I	Topics covered will include signed number operations and order of operations, exponential laws, and basic polynomial operations.
	MT 120 ALGEBRA II	Topics will include solving systems of linear equations, real-world explorations and applications, factoring, quadratic equations, algebraic fractions, and graphing skills. Prerequisite: Algebra I.
	MT 130 GEOMETRY	Visualization skills, basic geometric objects, and geometric proofs and constructions will be covered. Prerequisite: Algebra I.
	MT 140 PRE-CALCULUS	The basics of right triangle and unit circle trigonometry will be studied with an emphasis on applications. Prerequisite: Algebra I and II.
	MT 150 CALCULUS I	The basic concepts of limits, differentiation, and integration will be studied both graphically and computationally. Prerequisite: Algebra I and II, Geometry & Trigonometry.
	MT 155 CALCULUS II	Methods of integration, to include integration by parts and trigonometric integration, and sequences and series will be covered. Prerequisite: Calculus I
CHECK BELOW	ENGLISH	
	EN 110 SPEECH	Students will receive training in the fundamentals of diction and

		effective oral expression. Students will also receive training in preparing reports using power point as well as informed extemporaneous speaking. Techniques of interviewing will also be explored.
	EN 120 ENGLISH COMPOSITION (Underclassmen Course)	This course will emphasize the development of basic writing skills considering grammatical rules and the mechanics of writing. Students in this course will be encouraged to sign up for Computer Applications unless they have already had this.
	EN 130 RESEARCH PAPER WRITING IN THE SCIENCES	Emphasis will be placed on scientific research, which depends on library and Internet research and the research paper. Library skills and word processing techniques will be included in this course. Prerequisite: English Composition, 11th & 12th grade only.
	EN 140 LITERATURE OF THE SCIENTISTS	Focus is on the writings and works of the scientific minds- both past and present.
CHECK BELOW	SCIENCE	
	SC 110 BIOLOGY	Human development, plant life, and the nature of organisms will be emphasized. Topics include organization of living matter, metabolism, reproduction and genetics.
	SC 120 CHEMISTRY	Topics included will be classification matter, chemical bonding, and chemical reactions including the balancing equations.

	SC 130 GENERAL PHYSICS	Topics include motion, forces, energy, and torque designed as how things work through discovery & experience. Prerequisites: Trigonometry, Biology, & Chemistry (some exceptions may apply)
	SC 140 CALCULUS-BASED PHYSIC	Topics will vary according to the experiences and needs of students. Prerequisites: Calculus I, General Physics
	SC 150 ADVANCED PHYSICS	Topics will vary according to the experiences and needs of students. Prerequisites: Trigonometry, General Physics
CHECK BELOW	COMPUTER SCIENCE	
	CS 100 COMPUTER APPLICATIONS	This course covers computer applications such as word processing, spreadsheets, databases, and presentation software. Prerequisites: CS 100 or equivalent. (To be exempt from this course, a student will have been able to create a flowchart and write a program using Do-While statements.)
	CS 110 INTRODUCTION TO PROGRAMMING- Q-basic	This is a beginning course in programming that emphasizes analysis and design of programs using flowcharts as a tool. Topics to be covered are input /output, looping, lookup and file maintenance. Prerequisites: CS 100 Introduction to computing and Algebra. (To be exempt from this course, a student

		will have to be able to create an interactive program using Do-While statements.)
	CS 200 WINDOWS PROGRAMMING VISUAL BASIC	This course assumes knowledge of Q-basic and applications to projects using a windows operating system. Topics to be covered are even driven programming, graphical user interfaces and client server connectivity. Prerequisites: CS 110 Introduction to programming. (To be exempt from this course a student will have to be able to create an interactive program with list boxes and even-driven design.)
	CS 210 WEB DESIGN	This course is a beginning course in web design. The focus will be HTML and using web design tool.
	CS 220 Spreadsheets	This course will use a spreadsheet program to create applications.
	CS 230 COMPUTER ENGINEERING	A+: This course will cover topics in computer repair, updating and networking computer hardware.
	CS 240 DATABASE PROGRAMMING	This course assumes knowledge of Q-Basic and Visual Basic. Topics to be covered will be I/O, calculation, report writing, sorting, and filters.
	CS 250 C/C++ PROGRAMMING LANGUAGE	The emphasis is on good programming style, expression, and documentation using C/C++ language. In addition to the basic syntax, topics include numeric and string processing, recursive functions, data structures, and algorithms. Applications are directed towards linking the CPU internal communication with

		different outside environments. Prerequisites: Intro to programming. All programming classes require coding and executing programs.
	CS 260 INTRO OBJECT ORIENT PROGRAMMING JAVA	This is an introduction to Object Oriented Programming course. It deals with the constructions and manipulations of classes and objects. Object oriented programming concepts, algorithms, techniques, and libraries are also reviewed. Students are required to write programs of a moderately complex nature. Prerequisites: Intro to programming. All programming classes require coding and executing programs. Knowledge of C/C++ recommended.
CHECK BELOW	ELECTIVES	
	EL 100 FRESHMAN/SOPHOMORE SAT PREPARATION (REQUIRED)	Test taking skills and preparation for standardized tests will be discussed. The focus of this course will be to familiarize the students with the current SAT test. Much of this course will, therefore, be spent in test taking.
	EL 115 JUNIOR/SENIOR SAT PREPARATION (REQUIRED)	Test taking skills and preparation for standardized tests will be discussed. The focus of this course will be to familiarize the students with the current SAT test. Much of this course will, therefore, be spent in test taking.
XXX	EL 120 How to Be Successful	This is a mandatory course for all students. It will meet once a

		week. It will include such topics as: “Dress for Success”, “Time Management”, dining etiquette, etc.
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IMPORTANT

A letter of reference from your mathematics or science teacher and a copy of your most recent report card should accompany this application in order for it to be considered complete. A letter of interest that consists of a short essay written by the student describing his/her desire to be a part of ISSP must also be included. **Please mail the application packet, letter of reference, and most recent report card no later than **MAY 22, 2009** TO:**

**Ms. Terry M. Coleman
Office of the President
Delaware State University
1200 N. Dupont Highway
Dover, DE 19901**

Acceptance will be made from among those applications that are entirely complete. Notification of acceptance will be made as soon as possible and will be determined by an analysis of: 1) teacher/counselor recommendation; 2) grade report, and 3) letter of interest. **SPACE AVAILABILITY IS ON A FIRST-COME, FIRST-SELECTED BASIS. PLEASE MAIL YOUR NON-REFUNDABLE (refundable only if not selected) \$100 DEPOSIT, ALONG WITH COMPLETED APPLICATION TO GUARANTEE YOUR SPACE.**

NOTE: A PHYSICAL EXAMINATION, BY YOUR FAMILY PHYSICIAN IS REQUIRED (SEE ATTACHED FORM C.) PLEASE MAIL BACK WITH COMPLETED APPLICATION.



FORM A

INTENSIVE SUMMER SCIENCE PROGRAM
Delaware State University
Dover, DE 19901
HOUSING CONTRACT
FOR RESIDENTIAL LIVING

NAME LAST FIRST MIDDLE NICKNAME

HOME ADDRESS:

AGE: DATE OF BIRTH:

PARENT OR GUARDIAN:

1. Check classification, which will apply to you Fall 2009.

9th Grade 10th Grade 11th Grade 12th Grade

2. Do you have any special medical or health problems that we should be aware of?

Yes No If yes, specify

3. Do you have health and/or accident insurance coverage?

Yes No

If yes, list the name of your insurance company and policy number:

4. Who should be notified in case of emergency?

Name Telephone

5. I UNDERSTAND AND AGREE THAT

- a. My application is accepted by the University subject to the contractual terms and conditions that are stated in this contract.
b. My acceptance of an assignment will constitute agreement between Delaware State University and me under the terms and conditions specified to herein.

STUDENT'S SIGNATURE

PARENT/GUARDIAN SIGNATURE

**TERMS AND CONDITIONS GOVERNING CONTRACT
FOR RESIDENCE HALL**

RESIDENCE HALL REGULATIONS

- A. All participants in the summer program are required to live in the residential halls.
- B. Students will abide by the curfew established for the program.
- C. Firearms/weapons/explosives -the possession and/or storage of any type of dangerous firearms, weapons or explosives (e.g. rifles, shot guns, pistols, stun guns, air rifles or pistols, bow and arrow, knives, firecrackers, smoke bombs, mace, or other hazardous chemicals) is strictly prohibited.
- D. Animals and pets are not allowed on campus.
- E. Students are expected to refrain from making excessive noise and shall not interfere with the rights of other students at any time. (QUIET TIME: 9:00 P.M.-7:00 A.M.)
- F. Safety regulations and sanitary standards require that cooking and ironing NOT BE PERMITTED in residence hall rooms. The following electrical appliances are NOT to be used in the residence hall rooms: non-automatic coffee pots, immersion type heating elements, hot plates, toasters, oven and skillets. Refrigerators are permitted for medical reasons only (doctor's official statement needed for verification). Electrical appliances not approved for room use may be used in the kitchen.
- G. University equipment, furniture or furnishings are not to be moved from the room or area in which the university has placed them. Beds are not to be disassembled.
- H. Students who are found to be guilty of being involved in the use, possession or distribution of drugs (including alcoholic beverages) in a residence hall or on campus will be immediately released.
- I. All residence hall locks and keys are the property of the University. Keys are only to be duplicated by authorized University personnel. Missing or stolen keys should be reported to the office of the building in which you reside. Lost room keys will be replaced at the current charge of **\$100**. It is required that you lock your door when you are not present even if only leaving for a few minutes. Students not conforming to this policy will be held responsible and accountable for any items that are missing.
- J. Your ISSP Identification card must be carried at all times. If, lost there is a \$25.00 replacement fee.
- K. Bicycles and motorcycles are not permitted on campus.
- L. **No** iPods w/earphones, radios, TVs, boom boxes, CD players, etc. are allowed in the residence halls; however, students are allowed to watch television in the lounge during designated hours.
- M. **No** cellular phones or beepers are allowed during the duration of the program.

ROOM ASSIGNMENTS

The University reserves the right to make room assignments considered to be in the best interest of the institution and of the student body.

SERVICES FURNISHED

The University furnishes a bed with mattress (twin size), closet, a desk and chair, and a bookcase. The University DOES NOT FURNISH LINENS OR PILLOWS. Students should bring two sets of linen and change linen once a week.

UNIVERSITY RIGHTS

- A. Residence directors and maintenance personnel may enter assigned rooms for the purpose of carrying out their assigned tasks and functions.
- B. The Housing Office may change or cancel your assignment in the interest of order, health, discipline, or other urgent reasons.
- C. The University will levy and collect charges for damages, for alteration of unauthorized use of rooms, equipment or buildings and for special cleaning necessitated by improper care of rooms or equipment.
- D. If one of the occupants of a room is released or moved for any reason, the director of housing reserves the right to require the remaining occupant to move in with another student who does not have a roommate.

THE STUDENT AGREES

- A. That this contract shall extend from July 5, 2009 until August 1, 2009 at 12:00 Noon.
- B. To exercise reasonable care in the use of the residence hall facilities; to care for and clean the assigned room, to abide by all regulations pertaining to the residence halls of the University, whether such regulations be in effect now or later enacted.
- C. To hold the University harmless from any lawsuit or other claims whatsoever resulting from or arising out of injury to the student's person or properties while an occupant of the residence hall, providing that there is no negligence on the part of the University.
- D. That (s)he will pay to the University the cost of replacement or repair for any damages to his/her room, its fixtures or furnishings and a prorated share of cost for damages to communal property when the identity of persons responsible cannot be determined.

THE UNIVERSITY AGREES

To grant the use of the residence halls from 12:00 Noon July 5, 2009 until August 1, 2009 at 12:00 Noon.

THE PARENT/ GUARDIAN AGREES:

To hold the University harmless from any lawsuit or other claim whatsoever resulting from or arising out of injury to the student's person or damaged /loss of property, while on the premises of Delaware State University and as a participant in the Intensive Summer Science Program.

THE UNIVERSITY AND THE STUDENT MUTUALLY AGREE:

- A. That the University reserves all rights in connections with assignment or reassignment of residence halls and /or rooms. Any student living may be required to withdraw from the program.
- B. If the student's physical examination should reveal a health condition, which renders group living unwise, this contract shall be terminated.

I HAVE READ AND I UNDERSTAND AND AGREE TO THE TERMS AND CONDITIONS OF THIS DOCUMENT.

Signature of Parent/Guardian

DATE



INTENSIVE SUMMER SCIENCE PROGRAM

Delaware State University

GENERAL REGULATIONS

All participants in the ISSP are required to live in the residence hall assigned. We would prefer that students remain on campus during the entire four week period; however, the student may leave the campus between the hours of 1:00 P.M. and 6:00 P.M. Sunday, provided written request by the parent is on file in the ISSP office by the prior Wednesday. **ONLY** Parents/Guardians must sign out and sign in the participant.

The student is also required to sign out of the residential hall for any absence from the campus. This includes the library and special activities.

Class attendance is compulsory. There will not be any un-excused absences. Parents of students with un-excused absences and students may be asked to withdraw.

Students will abide by the following curfew without exception:

Room check: 10:00 P.M. Sunday through Thursday
(Each student must be in his/her own room.)

Room check: 10:30 P.M. Friday and Saturday
(This extension allows the student time to return from the recreational activities scheduled by the program on these evenings.)

Students will be issued identification cards. This card may be required for admittance to the gym and various evening activities. **Visitation to the campus** or program activities by persons other than participants is **prohibited.**

All regulations stipulated in the residence hall contract apply regarding animals, theft, electrical appliances, firearms, drugs, alcohol, and removal or damage of University property.

Generally, a student determined in non-compliance with the regulations will be given a warning and the parent notified in writing. A second offense may result in immediate dismissal.



FORM B

**INTENSIVE SUMMER SCIENCE PROGRAM
Delaware State University
Dover, DE 19901**

PERMISSION FORM FOR PARTICIPATION IN PROGRAM EVENTS

I, _____, give my permission for my
PRINT NAME OF PARENT/GUARDIAN

Son /daughter / guardian, _____, to participate in all
PRINT NAME OF ISSP PARTICIPANT

ISSP activities, July 5, 2009 until August 1, 2009. I understand that parents or other chaperones are not invited to attend ISSP events, except with special permission.

Parent/Guardian

Home Phone Number Work Number

Son/Daughter's Insurance Carrier & Policy Number

Date

FORM C

**INTENSIVE SUMMER SCIENCE PROGRAM
Delaware State University
Dover, DE 19901**

PHYSICAL EXAMINATION SHEET

(TO BE COMPLETED BY A PHYSICIAN)

(Please note as OK, abnormal, or answer where applicable.)

NAME: _____ DATE _____

Height _____

Genitals _____

Weight _____

Extremities: Upper _____
Lower _____

Temperature _____

Shoulders _____

Pulse _____

Spine _____

Respiration _____

Speech _____

Blood Pressure _____

Skin _____

Eyes: Left _____
Right _____

Emotional State _____

Nose & Throat _____

Urine _____

Teeth _____

Serology _____

Thyroid Gland _____

Tine Test _____

Ears _____

Tetanus Toxioid _____

Lungs: Left _____
Right _____

Eligible for sports _____

Heart: Beat _____
Murmur _____

Abdomen _____

Examiner Date

Please return completed form to: Mrs. Terry Coleman, Office of the President,
Delaware State University, Dover, DE 19901