

2025 Student Handbook

Sunday, May 25th – Friday, June 27th, 2025

Funded by the Tennessee State Department of Education with additional support from East Tennessee State University

East Tennessee State University, Johnson City, does not discriminate on the basis of race, color, religion, national origin, age, disability, or veteran status in provision of educational opportunities or employment opportunities and benefits. This policy extends to both employment by and admission to the University.

The University does not discriminate on the basis of race, sex, or disability in its education programs and activities pursuant to the requirement of Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, and the Americans with Disability Act (ADA) of 1990.

Inquiries and charges of violation concerning Title VI, Title IX, Section 504, ADA or the Age Discrimination in Employment Act (ADEA) or any of the other above referenced policies should be directed to the Office of Equity and Diversity (OED), ETSU, Box #70734, Johnson City, TN 37614-1709, telephone (423) 439-4445. Requests for accommodations of a disability should be directed to the ADA Coordinator at the ETSU Office of Human Resources, Burgin Dossett #307, Johnson City, TN 37614-1709

Dr. Alissa A. Lange Director langea@etsu.edu Ms. Angela T. Haga Assistant Director haga@etsu.edu

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Biology for Science Majors - BIOL 1111-070 (Lecture I (3 hours) Instructor: Dr. Trevor Chapman
Biology for Science Majors - BIOL 1110-070 -Lab I (1 hr.)- Instrucor: Dr. Trevor Chapman
MATH 1530-070 Probability & Statistics, Lecture I (3 hours)- Instructor: Dr. Bob Price
Prerequisite(s):
Governor's School in Integration of Biological & Statistical Sciences
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Textbook
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Governor's School in Integration of Biological & Statistical Sciences

The overarching goal of the Governor's School in Integration of Biological & Statistical Sciences is to broaden the students' appreciation and knowledge of biology and mathematics through exposure to and integration of a wide range of contemporary biological and mathematical topics. In each case, model building and data analysis will play a critical role and will be interwoven in a statistical and biological context. Students will be engaged in the scientific method via handson research experiences. Resources from E.T.S.U.'s strong undergraduate science and mathematics program, research laboratories, and local schools will be used to accomplish these objectives. In addition, the program will make use of resources from industry, governmental agencies, and academic science establishments. Thus, the school will provide a series of courses, laboratories, projects, field trips, seminars, lectures, and other activities centered on mathematics, statistics, and biology. Some of the field trips will include Aerojet/Rocketdyne; Gray Fossil Site and Museum; Bays Mountain Nature Center; ETSU Quillen College of Medicine-Medical School Laboratory Tour; Roan Mountain State Park Nature Tour and Nature Walk; Historic Jonesborough (the oldest town in Tennessee) "Live Music on the Square" and shopping in quaint local shops and The Carter Family Fold Museum and concert arena. The curriculum will consist of courses BIOL-1110-1111 (4 credits, biological sciences for majors) and MATH 1530 (3 credits, probability and statistics), which will be taught in the integrated fashion developed through a \$1.7 million grant from Howard Hughes Medical Institute, e.g., cells, ecology, metabolism, enzymes, evolution, and genetics. Students will experience a renaissance style school that provides them a healthy respect for many disciplines and career options as they get ready to enter college.

The Curriculum

The curriculum offered will include three regularly-offered courses (seven hours total):



BIOL 1110-070 Biology for Science Majors Lecture I (3 hrs.) -- Course Request Number CRN#

Core requisite: BIOL 1111-070. Principles of molecular and cellular biology, including metabolism and genetic inheritance. Designed for biology majors, minors, and others who plan to take upper-level courses for which this is a pre-requisite. Three (3) hours of lecture and two hours of lab. A common grade will be given in BIOL 1110/11.

BIOL 1111-070 Biology for Science Majors Lab I (1 hr.)-- Course Request Number CRN#

Core requisite(s): BIOL 1110-070. Laboratory exercises to gain the ability to identify and use the processes of biological science with materials corresponding to Biology for Science Majors Lecture I. One (2) two-hour lab per week. A common grade will be given in BIOL 1110/11.

Math 1530-070 Probability and Statistics (3 hrs.) -- Course Request Number CRN#

Prerequisite (s): Two years of high school algebra. Descriptive statistics and its relevance, including probability, experimentation, measurement, sampling and survey, informal statistical inference, and hypothesis testing are included.

Important Dates: The following are important dates for parents and students:				
Sunday, May 25 th , 2025				
8:00am - 12:45pm	Student check-in- Lucille Clement Hall			
1:00pm-2:00pm	Informational Session for students and parents- Location to be announced closer to May 25 th , 2025			
Friday, June 27 th , 2025				
12:00pm – 1:30pm	Luncheon & Closing Ceremony (Attending: students, parents, counselors, professors, director, assistant director and, guest speaker Location to be announced closer to June 27 th , 2025			
1:30pm – 3:00pm	Students will check out of dormitory and head home			
-				

Directions to the Residence Hall:

Driving Directions to East Tennessee State University (You may use http://www.mapquest.com and plan out the route from your home (physical 911 address to 391 S. Dossett Drive [ETSU]. MAPQUEST will give you detailed information and also a map-origination and destination. Johnson City, Tennessee

- Coming from the north, south and • west use I-81.
- Exit onto I-26 toward Johnson City/ Asheville
- Take exit 31 onto University Parkway and follow the signs to campus.

Residence Hall Information: Lucille Clement Hall

https://www.etsu.edu/students/housing/prospectivestudents/viewhalls/clement.php

We will be housed in Lucille Clement Hall.



You will receive a *Card dorm key*, which must be turned in at checkout, so be careful with the key to your room. The University has a standard \$50.00 charge for lost keys and cannot be responsible for the loss or damage of students' possessions. Residence halls, like hotels, are places for occasional loss of property that is almost never relocated or recovered. Students should remember to lock their doors each time they leave their rooms in order to protect their belongings and those of their roommates.

Identification



YOU WILL NEED TO BRING WITH YOU AN OFFICIAL PICTURE ID When you check in; you will also receive a Governor's School name badge and a Special Functions Identification Card. When on campus, you are required to wear your badge at all times. The special ID authorizes your presence on campus. Please carry this ID with you at all times - there is a \$50.00 charge to replace lost ID. This ID will be required for meals, to check out books from the library, to gain access to swimming and other athletic facilities, and to be admitted to certain cultural events.

Visitation Policy: Because we have a full, seven day-a-week schedule of instructional and recreational activities planned for the Governor's School students, we must ask that parents and friends abide by a "vistors" policy. Parents and other unauthorized visitors will not be permitted in classes, in the residence hall at any time, or on any field trips or other activities of the Governor's School. Sundays are classified as FAMILY DAY. Parents are welcome to come to visit their son/daughter from 9:00am - 7:00pm.

Contacting Student in case of an Emergency: In any emergency situation or regarding information about the location of each student, the assistant director Angela Haga can be contacted at (423) 439-7592 from 8:00am to 4:30pm, Monday through Friday. At other times the student can be contacted by calling the lead counselor (phone number will be forthcoming when students check in to Lucille Clement Apartments).

Automobile Policy: Students WILL NOT BE PERMITTED to use a car while enrolled in the Governor's School in Integration of Biological & Statistical Sciences. NO CARS WILL BE ALLOWED ON CAMPUS AT ANY TIME FOR ANY REASON. There will be no need for an automobile because all activities on campus are within walking

Coming from the east, take I-26 from Asheville, N.C., then Exit 31 onto University Parkway. Follow the signs to campus.

distance of the dormitory, and the Governor's School provides transportation for off-site field trips and recreational activities.

Telephones: Each dormitory room has voice/internet protocol phone. However, no long distances phone calls can be made on these phones, but students may make long distance calls on a collect basis, or through use of a long-distance telephone calling card. On-campus numbers (439-numbers) are accessed by dialing 9 and the last four digits. To make local calls to off campus phones, first dial 8, wait for a dial tone, and then dial the number. For room to room, dial 3 then the four-digit number for that room. For operator assisted long distance calls, dial 8, wait for a dial tone, dial 0 + area code + number; the operator will answer. Students cannot accept collect calls. As a courtesy to their roommates, students should limit phone calls to fifteen minutes and not receive or make calls after midnight.

<u>Cell Phones:</u> Students participating in the Governor's School in Integration of Biological & Statistical Sciences. MAY BRING CELL PHONES: For use during free time and on Family Day *ONLY*. Cell phones are prohibited in class, during class related activities such as field trips and other related Governor's School activities, or walking to and from class, from the dormitory to the D.P. Culp Center, etc. If the instructor's want the students to use their cell phones in class that is up to each instructor.

<u>Mail</u>: The campus post office, located on the lower level of the Culp University Center, is a full-service federal contract station with more than 13,500 P.O. boxes and offering retail service comparable to any United States Post Office. Business operating hours are 8:20 a.m. to 3:50 p.m. Monday through Friday. No service is provided on the weekends, but P.O. Box access is available 7 days a week, 8:00 a.m. until 10:00 p.m. through the post office lobby.

For more information call (423)439-4232. Students may purchase stamps at the *East Tennessee State University Post Office*.

All student mail will be delivered to Ms. Angela Haga and then disbursed by the GS counselors to each student who receives mail. Students may receive mail at:

 Name of student

 East Tennessee State University

 C/o Governor's School in Integration of Biological & Statistical Sciences (GS IB&SS)

 Attention: Ms. Angela Haga

 P.O. Box 70301| Johnson City, TN 37614-1709

Expenses and Money: The Tennessee Governor's School pays for most student expenses, including tuition, dormitory room costs, food, recreation fees and transportation on field trips. Most students will need a modest amount of spending money. Money should also be available for prescription(s) and over-the-counter medications needed. Transportation will be provided to pharmacy if needed.



Students *will not* be able to cash money orders or personal checks and will have even greater difficulty cashing out-of-town checks from parents. *The Governor's School and/or East Tennessee State University* will not be able to intervene in money transfers.

Traveler's Checks are the safest and easiest way to bring money to the School. They can be cashed at the D.P. Culp University Center. Bank cashier's checks may also be cashed at the D.P. Culp University Center. The limit for check cashing is \$50 per visit. There is also an automatic teller machine available in the D.P. Culp Center.

<u>Clothing</u>: In the months of June through July, the high temperatures will be in the 80's and 90's. We recommend that you dress casually, comfortably and discreetly for daily activities. In classes or other academic settings, walking shorts are acceptable; NO short shorts, halter tops or provocative apparel should be worn. Most buildings are air-conditioned, so, you may want to bring a sweater or sweatshirt.

Depending on recreational activities planned, jeans or other long pants, long sleeve shirt and a sturdy pair of footwear will be needed. An *umbrella or poncho* would be a good idea. Please bring a daypack or backpack to carry your books and

personal belongings on field trips and to and from classes. For our opening and closing events, more formal attire is suggested such as church clothes.

Laundry: Laundry facilities are located in the dorm and the cost for washer and dryer is free We suggest you bring a supply of laundry detergent, fabric softener, dryer sheets, etc. (whatever you need to do your laundry). Students also need to bring their own bed linens. (See list of suggested items to bring—in attached packet.)







Meals are provided daily by our food service provider Sodexo beginning with breakfast on Tuesday morning, **May 27th, 2025 and will conclude with breakfast on Friday, June 27th, 2025.** Breakfast, lunch and dinner will be served at the DP Culp Center. Weekend meals will be provided for GS students by the GS counselors (takeout or going to a local restaurant within walking distance).

What to Bring: Sporting Equipment, Music Players, and Camera. Bring any of these items you think are appropriate for use during recreation periods. **Do Not Bring Video Games or Gaming Systems**! Bring swimsuits and beach towels for swimming in the campus pool. Light sporting/recreation equipment, such as volleyballs, softball equipment, or basketballs may be checked out from the Center for Physical Activity.

Students are encouraged to bring cameras to take candid shots of their academic and social experiences. Ms. Haga will be using photos taken from the five-week Governor's School for a student yearbook that will be distributed to each student during the closing ceremonies.

<u>Personal Items</u>: If you have a favorite type of pen, pencil, or writing paper, you should bring your own supply of these. You will need a scientific calculator (TI-84 or equivalent). A backpack will be useful for carrying books and supplies to class.

Please bring Alarm clocks or clock radios. You will need to be up and ready to meet your group in the hall to prepare to leave for breakfast at 7:45 am. There should be no reason whatsoever to be late for the count off. Remember to bring personal items such as soap, shampoo, sunscreen, or stationary, although the Campus Book Store and local drug stores carry full lines of these items if you need to purchase them during the program.

Computers



Each student will need to bring their own **laptop computer** for in-class use and for completing homework assignments. These computers can be used for doing their homework and research for the project each student chooses. The **Governor's School nor East Tennessee State University** will be able to assume any responsibility for damage and/or loss of any student's equipment. The student will be held responsible for their personal items. **I will let you know** in advance if there will be desktop computers in the classroom where your MATH and SCIENCE classes will be held.

University Facilities

The Charles C. Sherrod Library



The Charles C. Sherrod Library, the Main Library on campus, opened in 1987 and holds the general and research collections and a comprehensive collection of bibliographic reference and research collections.

Library hours of operation during the *Governor's School Program*: Contact Tiffany Watson, <u>watsonth@etsu.edu</u> at (423)439-5222 for explicit Summer Semester hours for GS students.

Summer Semester 2025: June 6, 2025 - August 17, 2025

Mon Thurs.	7:30am – 9:00pm	
Friday	7:30am – 7:00pm	
Saturday	11:30am – 7:00pm	
Sunday	11:30am – 7:00pm	
Friday July 4, 2025	Independence Day Closed	

<u>Campus Recreation (The Wayne G. Basler Center for Physical Activity)</u>



Campus Recreation offers a wide variety of physical activities and recreational sports for the entire ETSU community - students, faculty, and staff. Programs are offered in five areas: fitness, intramurals, non-credit instruction, outdoor adventure, and sports clubs. The center for Physical Activity and Basler Challenge Course serves as the foundation for these programs.

The Wayne G. Basler Center for Physical Activity (CPA) is a 120,000 square foot facility that was built by, and currently operates on, student activity fees and is staffed by ETSU student employees. The building, which originally opened in 2002 as the Center for Physical Activity, was renamed in 2006 in recognition of Mr. Basler. Mr. Basler has been a generous contributor to ETSU as well as the Campus Recreation program over the years. The Basler Challenge Course located adjacent to the CPA was made possible by a donation from Mr. Basler.

In 2011 plans were made for an expansion of the CPA to add additional diverse facilities and resources. The project was completed in August 2013. The CPA expansion includes a volleyball/indoor soccer/basketball court, a training room, an additional group fitness studio, a change room, an extra 4,000 square foot area for the weight room, and the Fitness Suite.

The activity center has certain rules for minors (students who are under the age of 18) who are on campus.

Contact information for CPA: (423)439-7980

Hour of operation for the summer of 2025

Building hours

Monday- Friday:	6:00a.m 8:00p.m.	
Saturday:	10:00a.m 3:00p.m.	
Sunday:	Closed	

Field Code Changed

Pool Hours:
Monday- Friday:
Saturday:

Sunday:

7:00a.m.-9:00 a.m.; 11:00a.m.-1:00p.m.; 4:00p.m.-7:00p.m. 10:00a.m.-1:00 p.m.; 4:00p.m.-7:00p.m. Closed

You will receive specific instructions on the use of the pool. There is no charge to students for use of these facilities and no charge for lockers.

The University Bookstore:



The University Bookstore is located on the second level of the D. P. Culp University Center and is open Monday - Friday, 7:45am-6:00pm. The Bookstore carries a supply of new and used textbooks, paperbacks, school and office supplies, computer supplies, art supplies, stationery and greeting cards, tee shirts, sweatshirts, caps, and lots of other clothing. Traveler' check cashing service is offered to students, faculty, and staff. For more information call 423-439-4436.

The University Bookstore Summer hours: 8:00a.m. until 4:30p.m. Extended hours at the beginning of each semester.



The D.P. Culp University Center



The D. P. Culp Student Center serves as the community center for campus and connects the east and west sides of campus. An extensive \$45,000,000 million dollar renovation, completed in 2020, added 20,000 square feet of space plus an outdoor plaza, growing the Center to almost 200,000 square feet. Housed within are numerous services, student and administrative offices, recreational opportunities, food service areas, the bookstore, a post office, and meeting facilities for use by students, faculty, staff and members of the community. The D.P. Culp University Center Office phone number is 439-6633. studentcenter@etsu.edu

https://etsu.sodexomyway.com/dining-near-me/resident-dining Standard hours of operation (Summer Semester): 7:00am – 12:00am Summer Dining Hall Hours: 8:00am – 7:00pm Monday – Friday	Monday – Friday Closed on weekends
ETSU Post Office Hours: (24/7 Post Office Box access) 9:00am – 3:30pm Window Service hours Monday – Friday	Closed on weekends.
ETSU Campus Book Store Hours: 8:00am – 4:30pm Monday – Frid	lay Closed on weekends.

<u>Miscellaneous</u>: Any student having special dietary needs or medical needs will be accommodated. Phone conversation or email of such needs by the student's parent must be provided to the Governor's School Assistant Director, Angela Haga prior to the beginning of the program or else such needs will be problematic.

Students may bring a microwave if they so desire for their dorm room. Ms. Haga will provide the students with their dorm room partner's name, phone number, and email addresses so they may choose what items each will bring for their dorm room prior to opening day. (This information will be emailed to each student as soon as all required documentation is returned to Ms. Haga).

Operating Policies in the Governor's School in Integration of Biological & Statistical Sciences

Standards of Conduct: East Tennessee State University has certain standards of conduct that apply to students. As guests of the University, Governor's School students are expected to follow the University standards of conduct, as well as rules that pertain only to Governor's School students. A team of conscientious male and female Governor's School Counselors will ensure a pleasant and enjoyable stay, complemented by exciting recreational activities. Please note that the Governor's School Counselors are empowered to enforce all the standards of expected behavior and the School Director will have the authority to dismiss a student from the Governor's School Program for flagrant or repeated violations of these standards. Please see the General Policy on Student Conduct and Disciplinary Sanctions here https://www.etsu.edu/policies/documents/studentconduct_disciplinarysanctions.pdf

University Standards

The following are unacceptable acts in the University community and may result in immediate dismissal of anyone committing any of these acts.

- Vandalism, malicious destruction, damage, or misuse of private or public property, including library materials.
- Physical abuse of any person on University owned or controlled property or at University
- sponsored/supervised functions, or conduct that threatens or endangers the health or safety of any person.
 Use and/or possession, (or being under the influence of) alcohol, marijuana or any narcotic, stimulant, hallucinogenic drug. Such use violates state and federal law on University owned or controlled property or at University sponsored/supervised events.
- Possession, while on University owned or controlled property or supervised activities, of any weapon such as, but not limited to, rifles, shotguns, ammunition, hand-guns, and air guns, including explosives, such as firecrackers.
- Sexual harassment by any member (faculty, staff, students, applicants) of the University community is a violation of Federal and State laws and University policy.
- There will be no clubs, governing student body, or groups (clicks, etc.) associated with the Governor's School in Integration of Biological & Statistical Sciences. There will be no student leader for the Governor's School students. Every student has the same ability to voice his or her own opinions. Each student will be treated fairly and justly, no student will be treated superior or inferior to another student. If a student has a problem then that student will approach a counselor. If the counselor cannot satisfactorily deal with the problem, the director, Dr. Alissa A. Lange will be contacted.

Governor's School Standards

- Students in the program are expected to use only the University facilities appropriate for participation in the Governor's School. Off-limits to Governor's School students are: (a) residence halls other than the one assigned, (b) classrooms or other facilities used by other programs on campus.
 Governor's School students are expected to attend all scheduled activities and events. No exceptions unless student is very sick or unable to attend. Any absences will be reported to the School Director, and flagrant unauthorized absences will result in dismissal from the program.
 Repeated failure to complete classroom assignments and projects on time is cause for dismissal from the program.
 Leaving campus for a local destination is not permitted at any time for any reason. Students will NOT be excused from the Governor's School to visit relatives, or to attend family vacations, etc. In the
 - event of BONA FIDE emergencies, students will be released with the authorization of the assistant director (Angela Haga) and/or the School Director (Dr. Alissa A. Lange). The parent or guardian must contact the assistant director (Angela Haga) to authorize release of the student and to identify who will pick up the student.
 - **4** Smoking and use of smokeless tobacco are **prohibited** during the Governor's School.

Main Campus Perimeter: Students are not to leave the convenient perimeter comprising the campus of East Tennessee State University and bounded by State of Franklin Avenue on the north, and the railroad tracks at the west at any time. ETSU

Campus Map https://www.etsu.edu/ehome/documents/etsu-campusmap.pdf

Safety: The University is generally a safe community with many well-lighted routes. For their own safety, students are expected to walk only in groups of three or more and in the company of a GS counselor any time they are out of the dormitory (Lucille Clement Hall). It is important that parents and students familiarize themselves with all rules and policies described throughout this handbook. A thorough understanding and cooperation by students and parents will help to ensure the smooth operation for the Governor's School Program. All students can text ETSU to 237233 to receive emergency text alerts. Students and counselors can contact Public Safety at (423)439-4480 24/7.

Emergencies can happen at any given moment. Knowing the right thing to do in a moment of emergency can be the difference between life and death. ETSU responds to emergencies in three simple steps: Preparation, Response and Recovery.

Emergency Situations: In any emergency situation, students should notify the lead counselor and campus security. The ETSU Police Department (Public Safety) operates on a 24-hour per day basis. A police dispatcher is always available to take information or full reports. All 911 calls placed on campus telephones are routed to the Johnson City E-911/EMS emergency dispatch center. The call is dispatched to Johnson City Police for response. All calls, which are not of any emergency nature, should be made directly to the ETSU Police Department by calling (423) 439-4480.

There are towers with Blue light emergency telephones (or call boxes) that are located at various sites on the campus. Pushing one of two buttons (a large button that connects directly to the E-911 Dispatcher or a smaller button which contact the University's escort service) activates the call boxes. In response to a call from an emergency blue-light telephone, police officers are immediately dispatched to the location of the call or complaint. The location of the emergency blue-light call boxes is noted on the ETSU Campus Parking Map, which will be provided. In the dorms, students should report at once any unknown or suspicious individuals or other problems to one of the counselors. The counselor will then take the required precautions.

Student Health Services Clinic: Please be sure to include a copy of your health insurance card to the assistant director Ms. Angela Haga in the event of a medical or other emergency.

The Student Health Clinic is located on the first floor of Nicks Hall. Same-day appointments are available by call (423) 439-4225. The clinic is open Monday-Friday from 8:00a.m. to 4:30p.m to serve all enrolled students at ETSU. Care is provided by Nurse Practitioners, Registered Nurses, Physicians, and Health Educators. Specialty clinics are also available to students such as women's and men's health on a daily basis. There is no charge for visits to the clinic. Students are only charged for laboratory expenses and any medications that may be dispensed through our pharmacy.

Student Health Clinic services include:

- **4** Medical and nursing care for illness and injury
- **4** Referral to other outside health care professional for chronic conditions
- Allergy clinics

Major treatment is the responsibility of each student and their parents or guardians.

Physicians in the **Student Health Clinic** (University Health Center) may administer allergy shots. The clinic is open 8:00a.m. thru 4:30p.m. Monday-Friday. The clinic is closed on Saturday and Sunday. The clinic is located in Room 160, Roy Nicks Hall, (423) 439-4225. Their email is <u>universityhealth@etsu.edu</u>. Students may receive the following services at the Student Health Clinic:

- Physicals
- Medication Management
- Acute Care Visits/Sick Visits
- Behavioral Health
- Men & Women's Health Exam

- Counseling Services
- TB Screening/Testing
- Health Education Services
- Lab Work
- Specialist Referrals
- Titers
- STI Screening
- Allergy Injections
- Immunizations
 - MMR vaccine, Varicella vaccine, Meningitis vaccine, Hep B vaccine, Tdap vaccine,

Students having prescription(s) or needing over-the-counter medication must bring a note from their parent/guardian authorizing the use of such agents.

Curfew: A curfew has been established both for the safety of the students and to support development of their responsibility. On weekday nights, Monday through Friday and on Saturdays and Sundays, all students are to be in the residence hall by 10:00pm, and in their individual rooms and lights out by 11:00pm. Counselors are with the Governor's School students 24 hours a day, seven days a week. At no time are the students left alone for any reason. Each student will be required to sign a form that states they will abide by the rules of the Governor's School and East Tennessee State University while on the university campus and when they are attending field trips off-campus with counselors, professors, and staff. If the student shows disruptive behavior of any sort or violates the rules in any way it will be considered as an automatic dismissal from the program.

Lucille Clement Hall: Security & Safety Regulations and Procedures

A uniform set of regulations exists for the safety and comfort of all people in the dormitory. As members of the university community this summer, students are expected to adhere responsibly to these regulations.

1.	Students in the program are expected to follow all instructions and directions from their				
	counselors. These instructions and directions will always be fair, sensible, and sensitive to each				
	individual student's need.				
2.	Room assignments will be made by Ms. Angela Haga, the assistant director for the program. Part of				
	the college experience is learning to get along with roommates. Room changes cannot be made				
	without Ms. Haga's approval.				
3.	Female students are not allowed in the rooms of the dormitory assigned to male students and vice-				
	versa.				
4.	Students are expected at all times to wear a provided name badge on campus and follow the				
	curfew rules.				
5.	Dormitory windows are not to be opened. Objects may not be thrown out of dormitory windows.				
6.	Pets are not permitted in the dormitory at any time for any reason.				
7.	Students are expected to show consideration for others at all times and to avoid excessive noise				
inc	luding loud noise				
8.	Students are not permitted to use nails, tacks, or screws in the walls or woodwork anywhere in the				
	dormitory facility.				
9.	Students may not install any attachments to the telephone. Students are responsible for any damage or				
	loss of telephone equipment.				
10.	It is the responsibility of each student to personally maintain his/her assigned room. The room				
	must be cleaned and the trash taken out before final check out. Items that are flammable (fuel,				
	etc.) may not be stored in student's rooms. Items that require an open flame to operate (such as lighted				
	candles, incense, Bunsen burners, or alcohol burners) or which produce heat (such as hot plates or				
	popcorn poppers) are not allowed in resident's rooms.				

Remedies to Address Violations of Operating Policies

In our past experience, the *Governor's School* students have generally been outstanding young ladies and gentlemen who are very conscientious and display the highest and most commendable standards of conduct. For the sake of every student's welfare, security and safety, the Governor's School Counselors, Teaching Associates, and Faculty will promptly report to the *Governor's School Director* (Dr. Alissa A. Lange) any violation of the standards of conduct, and, most importantly, of the security and safety regulations. The School Director and Counselors will sensitively and responsibly impose the following fair remedies on any student who might clearly disregard standards and regulations.

- At the first willful violation of any standard or regulation, the offender will be instructed to remain confined to the dormitory (Lucille Clement Hall) immediately after classes and dinner. He/she will not be allowed to participate in any evening recreational activity. This remedy will remain in effect for two consecutive evenings following the violation. The *Governor's School Director* will also speak with the student to address and solve the problem.
- At the second willful violation, the remedies will include the ones described above. In addition, the Governor's School Director will discuss the situation with the student's parents, and depending on the gravity of the violation, he may dismiss the student.
- 3. At the third willful violation, the *Governor's School Director* will have no other remedy but immediately to dismiss the student from the program. In this case, the Director will make -arrangements with the student's parents to ensure a safe return to the student's home.

These remedies have the sincere objective of ensuring your security and safety, as well as welfare and comfort. Prior years' *Governor's School* students appreciated and actually welcomed the presence of these necessary rules, and we are confident you will agree that these rules can make your stay very safe, pleasant and enjoyable.

Appendix A

2025 Governor's School in Integration of Biological & Statistical Sciences Projects

Students will have the opportunity to be engaged in a variety of research projects. The projects are centered around the following topics: **TBD**. In each project, model building and data analysis played a critical role and was interwoven in a statistical and biological context.

Listed below is a brief description of each project. Each student will choose the project they want to be involved with. Each group will be highly involved in the research. The students will report their research findings to their parents and university faculty on the last day of the Governor's School (June 27th, 2025).

Dr. Price & Dr.	Project #1		
Chapman	Prostate Cancer		
Dr. Price & Dr.	Project #2		
Chapman	A Large-Scale CT & PET/CT Dataset for Lung Cancer Diagnosis		
Dr. Price & Dr.	Project #3		
Chapman	Framingham Heart Study Data Extract on Smoking & Hypertension		
Dr. Price & Dr.	Project #4		
Chapman	Head & Neck PET-CT-Cancer Dataset		
Dr. Price & Dr.	Project #5		
Chapman	Gene Expression & Transcription Factors		

Appendix B

Governor's School in Integration of Biological & Statistical Sciences Biology for Science Majors-{Lecture I and Lab I} Problem Stats/Non-Calculus-{Lecture}

BIOL 1110-070	BIOL 1111-070	MATH 1530-070
Biology for Science Majors	Biology for Science Majors	Probability & Statistics
Lecture I (3 hrs.)	Lab I (1 hr.)	Lecture I (3 hrs.)
Instructor: Dr. Trevor Chapman	Instructor: Dr. Trevor Chapman	Instructor: Dr. Robert Price
The principles of molecular and cellular biology, including metabolism and genetic inheritance.	Laboratory exercises to gain the ability to identify and use the processes of biological science with materials corresponding to Biology for Science Majors Lecture I.	Prerequisite(s): Two years of high school algebra. Descriptive statistics and its relevance, including probability, experimentation, measurement, sampling and surveys, informal statistical inference, and hypothesis testing are included.
Designed for biology majors, minors, and others who plan to take upper- level courses for which this is a pre- requisite.	This course contains one (2) two- hour lab per week.	Algebra- Laws of exponents, polynomials, factoring, rational expressions, radicals, quadratic equations.
This course contains three (3) hours of lecture and two hours of lab.	A common grade will be given in BIOL 1111-070	Reading proficiencies, acquisition of general vocabulary and discipline- specific terminology, recognition and expression of super-ordinate and subordinate concepts, interpretation of an author(s)? Purpose, opinion, and tone, fluency in reading, thoughtful response to written information and narration, summarization, and research techniques.

Governor's School in Integration of Biological & Statistical Sciences

East Tennessee State University

Department s of Biological Sciences and Mathematics

Course: IBMS 1100 SYMBIOSIS I

Number of credits 7- (3 for Biology, 4 for Statistics) Number of hours per week: 5 hours of lecture and 2 hours of lab

Objectives:

To present Biology as a science that is dependent on quantitative analysis of data. The course covers aspects of biology such as Introduction to the cell and cell growth, effects of size increase on organisms, Mendelian genetics, DNA replication and genomic content and how these characteristics can change over time by Evolutionary processes. To introduce Probability, Descriptive Statistics and Statistical Inference in the context of the study of Biology. The course covers the typical content of an introductory statistics course plus some additional topics. The notion of statistical inference is introduced very early in the course by means of randomization tests and the exact sampling distribution of the sample proportion based on the Binomial distribution. The examples in probability are mainly oriented toward topics of interest in genetics and bio-informatics s at an elementary level.

IBMS 1100 is the first course in a 3 course sequence that integrates biology, statistics, and mathematics, As a result, the mathematics and statistics is introduced, explored, and developed in biological contexts, including surface area to volume ratios, isometric and allometric scaling, fractals in biology, and difference equations and discrete systems in genetics, evolution, and the study of DNA. Pre-calculus concepts and limits are also introduced and developed in IBMS 1100, both due to the natural contexts which arise for doing so (such as log-log plots) and because a major goal of the Symbiosis project is to spread the coverage of calculus I across 2 semesters as a way of promoting greater student success in both calculus comprehension and skill development.

Teaching method: Lectures were prepared mainly in power-point. Hands-on class activities and data analysis in the computer lab were used when appropriate on addition to the wet/dry lab component.

Textbook: Complete class notes, on addition to power point presentations, were written for this course by the instructors under a grant from HHMI, they are available from the D2L platform.

Statistical software: Minitab, R, Maple, Java Applications, Image J, Web-based Applets and Activities

Module 1. - The Scientific Method

The study of *Biology* is introduced. Aspects of what hypotheses are and how they are tested leads into statistical inference. Examples of hypothesis testing such as von Helmont's plant growth test and Stanley Prussiner's Prion Hypothesis are discussed. An introduction of Arbovirus infection of Yellow Fever leads to a discussion of viruses and definition of life. The hypothesis of whether AIDS can be transmitted by mosquitoes is used as an example of the use of quantitative biology. The five themes of biology are introduced as the thread of further modules.

What is *Statistics*? Role of Statistics in the Scientific Method. An introduction to the role of Mathematics and Statistics in Science in general. Randomization test to test the hypothesis of equal means (medians, variances) of two populations based on experimental data. Why do we study probability? Basic definitions: Random experiment, sample space, event. Definitions of probability: classical, relative frequency, axiomatic definition and its consequences. Independent events. Replicates of a random experiment. Pascal triangle and basic combinatorics. Types of random variables, mass or probability function and density functions. Discrete probability distributions. Binomial distribution. Applying the Binomial distribution to do test of hypothesis about a population proportion. First glance at the limit

concept (probability as limit of a relative frequency, along with difficulties in using such a definition). First glance at mathematical models.

Module 2. - The Cell and Statistics

Introduction to the cell. What is the cell and why are they small? What is the concept of multi-cellularity? The organization of the cell and what are the consequences of the components functions. TANSTAAFL (There ain't no such thing as a free lunch), a more wide-ranging discussion of consequences starting from the more formally known Second Law of Thermodynamics. The transmission of information into and out of the cell. The cell cycle and Mitosis as a consequence of cell growth, repair and quiescence. Data production: observational studies and experiments. Basic definitions: Population, sample, individual, variables (categorical & quantitative).

Displaying and summarizing data for categorical variables, tables and graphs, relative risk, odds ratio, measuring agreement in matched-pairs situations. Displaying and summarizing data for quantitative variables, tables and graphs for one, two and several variables at the time. What does the data tell us? How to decide between the different statistical graphs? Location (mean vs. median, five number summaries) and variability statistics. Sources of variability. Looking at paired data. Correlation. What is statistical inference? Introducing the idea of sampling variability and sampling distribution. Exact sampling distribution of a sample proportion (based on the Binomial distribution) and its application to hypothesis testing and estimating with confidence. Bootstrapping to do inference about a population mean. Randomization or permutation test to test hypotheses about a parameter (mean, median or variance) in two populations.

Module 3.-Size and Scale

What happens to an organism as it grows bigger? Can ants really toss locomotives off the tracks? Can King Kong jump off the Empire State Building? Can Tyrannosaurus Rex really run at 80 kph? This module examines the functions that describe what happens when organisms grow (or shrink). Included are organism size as a determining factor in shape, the differences between isometry and allometry, problems with isometric scaling in biology, bacteria size, shape, organization, cell wall structure, and other characteristics. Exponential growth of Bacterial populations. Biological models with mass as the independent variable. Area, volume, and surface area to volume ratio. Isometric scaling, slope, equations of lines, allometry and power laws. Limits as tools for approximation. The exponential function. Logarithms. Linear regression and transformed variables. Normal distribution, Fractal Geometry as it relates to biological organisms and the surface area to volume ratio.

Module 4- Mendelian Genetics

Why was Gregor Mendel able to elucidate the laws that determine how organisms pass genetic information from one generation to the next? This crucial process was discovered and then ignored for almost 40 years and yet was the key that Darwin was missing to explain Evolution. The data and processes that Mendel used to determine these principles are examined. In this context, Meiosis is described as the cellular equivalent of Mendelian Laws.

A coin model to understand genotypes and phenotypes for all combinations of homozygous and heterozygous parents. Punnet squares and probability trees, 'back- testing'. Comparing experimental results with the expected results under an assumed model: Chi-square test of goodness of fit. Review of probability basics. Chi-square test of independence. Fisher's exact test. Test of homogeneity. Describing dependence with relative risk and odds ratio. Conditional probability and Bayes rule. Discrete distributions, expected value and variance, discrete uniform, Bernoulli, Binomial and its use to test hypotheses about a population proportion. Power of a test. Determining sample size based on the desired power for a test. Poisson distribution, binomial and normal approximations to the Poisson distribution. Introduction to sampling: population, sampling frame, sampling size, sampling methods (simple, systematic, cluster, two-stage, stratified), transect sampling, sampling and non-sampling error, capture/recapture and distance sampling.

Module 5- DNA genetics

Mendelian Laws describe how information is passed from generation to generation, but the molecular processes were not determined until the nature and structure of DNA was described. The structure of this molecule and the consequences of replication are covered. Is DNA the same in different organisms? Quantitative tools to look at the composition of the information are developed. DNA as nucleotide sequences, nucleotide frequency, GC content. Independence and conditional probability in the DNA environment. Transition matrix, graph to represent transition matrices. Probability of a given sequence of nucleotides, repeats of a single nucleotide, length of the repeat, geometric distribution. Palindromes, probability of any palindrome and of specific palindromes, space in between palindromes. Comparing two sequences of nucleotides. Similarities that happen just by chance. Random walks (and their use in testing for similarities). Sampling distribution of the sample mean and its use in confidence interval estimation and hypotheses testing. Approximated distribution (normal) of the sample proportion and its use in confidence interval estimation and hypotheses testing. Necessary sample size calculation in the case of estimation based on desired precision and confidence and the case of testing hypothesis based on the desired power. The t-student distribution and its application to inference for the sample mean.

Module 6- Evolution

"Nothing in Biology makes sense, except in the light of Evolution" by Theodosius Dobzhansky is the quote that sums up the importance of Evolution to Biology. The genetic basis of Evolution has been described and the applications of these principles to examples are covered. Applications of probability and statistics to populations. Evolution as it relates to population size and density. The Wright-fisher model with the Hardy-Weinberg equations as a special case. Rigorous development of the limit concept. Continuity. Discrete dynamical systems. Effect of sample size in the Chisquare test. Introduction to graphs and their use in genetics.

Appendix C

Scholars Attending 2025 Governor's School in Integration of Biological & Statistical Sciences (Sunday, May 25th – Friday, June 27th, 2025)

Last Name	First Middle Name	High School	Home City
Student name	Student Name	School	City
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Mathematics & Biology Instructors



Synthetic Biology Lab Instructors







Evie LaFollette Synthetic Biology Lab Instructor

Residential Counselors



Appendix D

Student Check List

Be sure to bring the following items:

- MANDATORY: Parent phone #'s (home, work, and cell) and email address! Laptop Computer (No Chrome Books) (sometimes getting into a computer lab is difficult) Proof of Health Insurance (I need a copy of your insurance card)-VERY IMPORTANT! Small microwave (if needed), coffee pot-(a small refrigerator is in your dorm room) Pillow, sheets, comforter, and pillowcase for a twin-size extra-long mattress (39x78" in length) Two light blankets Bath towels, wash cloths, beach towel Spending money can be credit, debit, or check card, or ID Bucs Laundry money and supplies (wash powders, fabric softener, dryer sheets, etc) Lots of Sunscreen (at least a SPF 30), hat, and sunglasses - YOU WILL BE IN THE SUN A LOT! Rain gear, umbrella Swimsuit towels Sturdy, comfortable walking or TENNIS shoes - You will be doing a lot of walking! Dress clothes for final presentation (closing ceremony will be in the Millennium Centre ballroom Backpack/book bag Personal trash cans w/bags Personal toiletries (ex: soap or shower gel, lotion, shampoo, deodorant, toothpaste, toothbrush, dental floss, mouthwash, eye drops, etc) and prescription medications Alarm Clock (a necessity—you have to be awake and on time for breakfast and class) Writing materials (paper, notebook, pen, pencils, etc.) VERY IMPORTANT Toilet Paper and Cleaning supplies for your room and bathroom You may consider bringing these items, though they are not necessary: Sports equipment (ex: Frisbee, football, cards, board games, etc.) Cell phone—may only be used during open time, cell phones are prohibited during all
- Governor's School activities
- Computer, surge protector, ethernet cord
- Digital Camera (you will want to take lots of photos of your 5 week experience)
- Small radio/CD player

DO NOT BRING

- Personal checks
- Cars
- Extension cords
- Flammable items (such as candles, popcorn poppers, hot plates, etc.) .
- Alcohol and tobacco products
- Firearms and weapons of any kind

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