

STUDY ABROAD PROGRAM
Global Biotechnology-BIOL 4110
Dept of Molecular and Cellular Biology

INSTRUCTOR

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COURSE TITLE

BIOL- 4110 : Global Biotechnology-Study Abroad, India

COURSE DESCRIPTION

This course provides students with a course dealing with key scientific, social, economic, commercial, and ethical issues that are associated with the development and growth of the biotechnology industry in global market. This course includes a traditional immersion experience in a host university along with travel to another country and intercultural experiences. Students will learn about the role of biotechnology and its application in industry with a global perspective. The travel component of this course enhances the academic and personal experience of the students. In addition, this course will give students an opportunity to learn about their chosen academic field or career choice from an international perspective, learn about communication and interaction skills with people from the host country, and establish successful relationships with others from around the world.

COURSE PREREQUISITE

BIOL3300- Genetics ("C" or better grade)/Exposure to Genetic/Discretion of program director.

PURPOSE OF THIS COURSE

The course opens a window to a world of new experiences and provides unique experiences in Biotechnology. The course:

- Provides students with a course that deals with the key scientific, social, economic, commercial, and ethical issues that are associated with the development and growth of the biotechnology industry.
- Enhances classroom teaching with an extensive program of course-related study tours to industries, research institutions and universities.
- Introduces students to an opportunity to cross-cultural experiences and traditions, an increased knowledge of the host country.
- Provides with new situations that test students' abilities to adapt and learn; often challenging environments.
- Students will gain skills that are valued in today's competitive workplace such as cross-cultural communication skills, flexibility, resilience, and the ability to adapt to new circumstances and work with co-workers of varying cultural backgrounds.

LEARNING OUTCOMES

- Gain experience in an “out of class room” set up.
- Understand the significance of biotechnology in another country in the field of agriculture, medicine and industry.

- Understand the environment, its renewable resource and understand sustainability.
- Understand the legal and ethical issues to conduct biotechnology research in another system.
- Learn how biotechnology products such as genetically modified crops are accepted by consumers in another country.
- Practice and apply interpersonal skills in team building and leadership during the trip.
- Gain travel experience and learn about the country’s rich diversity in traditions, culture, arts, history language, religion and its people.

TEXTS

1. Each person shall purchase an agreed upon travel book.
2. *Survival kit for Overseas living* - L.Robert Kohls Nicholas; Pub.- Brealey Intl, Edt.4 2001
Straus and Giroux, 2002.

CALENDAR

Date of travel: TBA

CONTACT HOURS

Pre Departure lectures- you will have 8 h of lecture prior to departure. Lectures will include topic on various areas of Biotechnology (agricultural, medical, Industrial and environmental) and followed by oral presentation (Refer table 1 below) by students on selected topics in Biotechnology.

Orientation- lectures will also include orientation (Itinerary, Visa, Passports, Vaccination, DO’s and DON’T’s, culture shock, medical status of each students, Emergency, misconduct).

During trip- you will have **42.45 h** lectures/Lab and **25 h** (counted at half time) of Experiential learning (this include visits to academic institutions, research stations, biotechnology companies museum, botanical gardens, religious sites,). You will also complete **16 h** of Community service learning to qualify for KSU Global scholarship.

Total number of contact hours: 83.45

**Study Abroad Global Biotechnology
Week of Orientation
TBA**

Study Abroad India: Week of Orientation

Names of students	Topics- Students Oral presentation (3-5 mins)*	Instructors Dr. Achar & Accompanying faculty (TBD)	Date TBA	Room TBA
	What is Biotechnology?	GENERIC OUTLINE for Study abroad orientations		
	Careers in	Go over		

	Biotechnology	SYLLABUS & EXPECTATION		
	Stem Cell Research: USA V/s India	PACKING CHECKLIST (This is a partial list; individual needs may differ)		
	Biotechnology products of medical importance in India			
	Biotechnology in India (Trend and Advancement in Biotechnology)	CULTURE SHOCK		
	Biological Control: explain mechanism of action with case studies			
	What are Chromosomes and add a note on Human Genome project	Eating Habits		
	Bioremediation in oil spill: explain mechanism of action with case studies	Traditions in India		
	What are Primers and Mechanism of action	EMERGENCY CONTACT NUMBERS-KSU AND PARENTS		
	Power of PCR and describe the steps in the making of millions of copies of the same sequence			
	DNA Sequencing	Crisis Management		
	Gel Electrophoresis	Rule of BEHAVIOUR		
	Tissue culture techniques Concept			
	Propagation of	SERVICE		

	economically important crops by tissue culture techniques in India	LEARNING WHILE ON TRIP (16 H) Any other Q & A		
	Therapeutic protein including recent discovery on Insulin, and anticancer drugs			
	Monsanto in India			
	Any topic related to diversity in India (student's choice)			

*Each student will present on topics assigned to them; 3-5 mins /presentation.; 4 students /session; Power point is preferred &

Dos & Dons after students presentation- PN Achar

PROGRAM EVALUATION

Students will be graded on the assignments prior to departure and post trip assignments on return, and daily work will be assessed in the form of lab reports and field trips (Refer grading policy Table 2 below)

COURSE GRADING PROCEDURE

Table 2: Grading procedure

Graded assignments	Totals	Final course	Percentage
Class Discussion/Oral Presentation Written= 5 Oral= 10	25	A	90-100
Pre- Trip Assignment	30	B	80-
Pre- Trip Lecture Quiz 1	30	C	70-
*Lab Notebook	10		
Tour report (Format at end of Post-Trip Assignment)	20		
**Lab Report includes daily activities (in -10x5)	30	D	60-
Report 3 Non Lab Activities during week of lab internship (orphanages, hospitals, rural)	30		
***Class participation while on	10		
Grand	23		

*Maintain a Lab notebook while in lab: record all possible information while running the hands on lab exercises: Goals, objectives, raw data, pictures; these will be required to collate Lab report**

**Lab Report: Type daily lab activities: (date, name lecturer, title of lab exercise, Goal, introduction, summary of material and methods, results with figures, tables and analysis, conclusion and references); Typing should be double spaced, 12 font Garamond

*** Participation while on trip means this student has followed the pretrip orientation guidelines and instructions, obeyed the DOs and DONTs, kept up with dress code instructions and other instructions laid out during orientation or during the trip, assisted the team wherever required, has not caused any disruption throughout the trip.

#Final letter grades A, B, C...in the course will be assigned according to the point breakdown listed above.

EVALUATION CRITERIA

Please drop all assignments/reports to the Office SC 526 before the due date for each.
Make sure all assignments/reports are in last name, first name format and are typed and print out.

1. Pre & Post Trip Assignment, Lab Report, Non Lab activities and Tour Report

Consider pre and post as research papers with the title, an introduction about the subject, and several paragraphs with subtitles **underlined** indicating past, current and future status of each topic as in an essay is written. Include references. A 3-page paper, double spaced, 12 font Garamond. Include pictures of mechanisms or protocols (no more than 10 pages with pictures). No bullet forms accepted. To be dropped in my office drop box Rm 526 and no email attachment accepted.

I. Pre-Trip Assignment

Give an overview of “Role of Microbes in Biotechnology” ; date, introduction, subheading, statistics, figures, tables & graphs , current and future status, conclusion and references.

Due date: TBA

II. **Pre- Trip Quiz** 1- On topics discussed during pretrip orientation, oral presentations and written submission of the same.; will be posted on D2L.

Due Date: TBA

III. Lab Reports-Lab activities

Give a detailed report of lab activities from **Day 1- 5**; Type daily lab activities: date, title of lab exercise, introduction, goal, summary of material and methods, results with figures, tables and analysis, conclusion and references); Type double spaced, 12 font Garamond and professor/lecturer in charge) at each session. Include all results in the form of data analysis and pictures.

Due Date: TBA

IV. Non Lab Activities

Select 3 non- lab activities hosted by DSI; non Lab Activities includes visits to orphanages, hospitals, rural & urban schools, academic institutions & biotech companies.

Due Date: TBA

III. Post-Trip Assignment

Write an essay on “Stem Cell Research, a global perspective” (date, introduction, subheading, statistics, figures, tables & graphs , current and future status, conclusion and references).

Due Date: TBA

IV. **Tour Report (Post-Trip):** Template for Tour Report is at the end of the page

Due Date- TBA

2. OTHER EVALUATION CRITERIAS

Behavioral Norms: Professional mature behavior is expected. You will be an ambassador representing both Kennesaw State University and the U.S.A. Please maintain decorum and appropriate standards of behavior. A detailed list of behavioral rules and guidelines as well as penalties for violations will be provided. Violation of these guidelines, displays of inappropriate behavior or not functioning as a contributing member of the group can result in an ‘F’ grade. Since you will be in close proximity and interacting with other tour group members for at least 3 weeks, it is important to accommodate and get along with other members of the group. The extent of your learning will depend on understanding and tolerating the varying types of food, weather, living conditions, social norms and values, and travel arrangements that you will experience during the trip (You will be provided with information regarding respecting culture and religion of host country).

Distracting the program itinerary at any angle by a participant, not following the itinerary or persuading other team members to deviate from itinerary also form part of behavioural norms by program director.

Disrespect to program director (disrespect as defined by program director) also form part of behavioural norms.

Attendance Policy: Attendance of all scheduled activities during pre- trip orientation week, and during the 3 weeks travel period is mandatory. Students should not be absent from scheduled classes/Lab work, special lectures or field trips unless they have a valid reason. Examples of acceptable excuses include: serious illness, or if student

has to leave the program due to a funeral. The determination of the validity of other excuses and the necessary documentation to support them will be at the instructor's discretion. Cases of illness should be reported to the Program Director or a Faculty member before absencing any scheduled activity. Absence from such activity will result in losing one letter grade.

Enrollment and Drop/Add Policy: Students cannot withdraw from their courses and remain in the program; they must carry at least 3 hours of credit. Program staff will not handle course withdrawals. Students must contact their home institutions (where they are registered) and handle the process themselves. They must provide the Faculty Member and Program Director with evidence that they have dropped the course.

Academic Integrity

KSU student is responsible for upholding the provisions of the Student Code of Conduct, as published in the Undergraduate and Graduate Catalogs. Section II of the Student Code of Conduct addresses the University's policy on academic honesty, including provisions regarding plagiarism and cheating, unauthorized access to University materials, misrepresentation/falsification of University records or academic work, malicious removal, retention, or destruction of library materials, malicious/intentional misuse of computer facilities and/or services, and misuse of student identification cards. Incidents of alleged academic misconduct will be handled through the established procedures of the University Judiciary Program, which includes either an "informal" resolution by a faculty member, resulting in a grade adjustment, or a formal hearing procedure, which may subject a student to the Code of Conduct's minimum one semester suspension requirement.

Plagiarism and Cheating

The above is in accordance to the University policy concerning plagiarism and cheating as stated in the KSU Student Code of Conduct. Refer to KSU document. All instances of academic misconduct, both intentional and unintentional, will be handled through established procedures of the University Judiciary Program (<http://www.kennesaw.edu/judiciary/procedur.shtml>). Students violating the University's academic honesty code are subject to University-level disciplinary action, which may include suspension or expulsion from the University. For exams, any student observed cheating will receive an automatic zero for the entire exam in addition to any penalties assessed through campus disciplinary procedures.

Academic Withdrawal Policy

Students may withdraw from one or more courses anytime before the last three weeks of the semester. However, as of Fall 2004, students will be allowed a maximum of eight total withdrawals if they enter KSU as a freshman. Transfer students will be allowed one withdrawal per fifteen credit hours attempted, for a maximum of eight. Students who choose to pursue a second degree at KSU will be allowed two additional withdrawals. Students who entered KSU before the Fall of 2004 will be allowed one withdrawal per fifteen credit hours attempted for a maximum of eight. To withdraw, the student should complete an official withdrawal form in the Office of the Registrar. Students who officially withdraw from courses on or before the last day to withdraw without academic penalty will receive a "W". Students who officially withdraw after the last day to withdraw without academic penalty (and before the last three weeks of the semester) will receive a "WF", which will be counted as an "F" in calculation of their grade point average.

The only exceptions to these withdrawal regulations will be for instances involving unusual circumstances, which are fully documented. Students may appeal to the academic standing committee for consideration of unusual circumstances.

Students cannot withdraw from their courses and remain in the program; they must carry at least 3 hours of credit. Program staff will not handle course withdrawals. Students must contact their home institutions (where they are registered) and handle the process themselves. They must provide the Faculty Member and Program Director with evidence that they have dropped the course.

Academic accommodations

Any student with a documented disability or medical condition needing academic accommodations of class-related activities or schedules must contact the instructor immediately. Written verification from the [KSU disAbled Student Support Services](#) is required. No requirements exist that accommodations be made prior to completion of this approved University documentation. All discussions will remain confidential."

****Good Luck****

Sample Itinerary (2016)

Days #	Date	Day	
1	July 28 DEPART ATL-PARIS ATL- CDG 550P - 810A	Thurs In Flight	<ul style="list-style-type: none"> • Departing ATL to Paris (evening) • Arrive next day July 29th (morning hours)
2	July 29 th DEPART CDG- BLR 1040A- 1155P	Fri	Overnight at IBIS City Centre Bangalore (check to waive check in time) <ul style="list-style-type: none"> • Transit 1-2 hrs in Paris • Reach past midnight at Blore Airport
3	July 30 th	Sat	Overnight at IBIS City Centre Bangalore <ul style="list-style-type: none"> • Welcome at DSU and dinner with faculty & Staff.
4	July 31 th	Sun	Overnight at IBIS Hotel City Centre Bangalore <ul style="list-style-type: none"> • Bangalore City Tour, Orphanages, Banerghatta • Dinner with Stic group
5-8	August 1 st -5 th afternoon	Mon- Friday afternoon Lab activities at DSI	Overnight at IBIS Hotel City Centre Bangalore Labs Activities at DSI Labs Activities: <ul style="list-style-type: none"> • Plant Tissue culture, Bioinformatics • Biotech and IT companies and others as decided by DSI • Techniques in Molecular Biology, bioinformatics, Training Visit to GKVK, UAS, • IIHR, IISC as decided by DSI • Mol. Bio, DSI and visit to IISC IIHR etc • FAREWELL DINNER by DSI • Service learning: Visits to a rural and urban schools, hospital, missionary (interaction with students, hospital staff and orphans) (evenings or weekend)
9	August 5 th DEPART BLORE- JAIPUR - evening Flight	Friday evening	Overnight at RAMADA Hotel, JAIPUR <ul style="list-style-type: none"> • Evening Local traditional dinner

10	August 6th	Sat	Overnight at RAMADA Hotel, JAIPUR <ul style="list-style-type: none"> • Full day sightseeing of Jaipur , shopping, & dinner with local family families.
11	August 7 th DEPART TO AGRA BY BUS	Sun	Overnight at Hotel Clarks Shiraz Agra <ul style="list-style-type: none"> • Morning sightseeing of Taj Mahal & afternoon Shopping
12	August 8 th DEPART TO DELHI BY BUS	Mon	Overnight at Royal Plaza or better <ul style="list-style-type: none"> • Fatehpur Sikri sightseeing on way to Delhi from Agra • Rest
13	August 9 th	Tues	Overnight at Royal Plaza or better <ul style="list-style-type: none"> • IIT- Delhi (Morning) • Delhi sightseeing (Redford, India gate, parliament house, Quatab Minar, Lotus Temple etc
14	August 10 th	Wed	Overnight at Royal Plaza or better <ul style="list-style-type: none"> • Visit to Govt Hse & Afternoon shopping • Akshadam-evening
15	August 11 th DEPART TO BBAY DEL- BOM 1000A- 1215P	Thur	Overnight at Bombay <ul style="list-style-type: none"> • Bombay City Tour • Shopping & REST
16	August 12 th DEPART TO PARIS BOM- CDG 1055A- 500P	Fri	Overnight at Campanille- Paris <ul style="list-style-type: none"> • REST
17	August 13 th	Sat	Overnight at Campanille- Paris <ul style="list-style-type: none"> • Bateaux Bus (whole day) • Eiffel Tower (evening)
18	August 14 th	Sun	Overnight at Campanille- Paris <ul style="list-style-type: none"> • Louvre museum • Sacre Coeur • Souvenir shopping • PACKING
19	August 15 DEPART CDG ATL 1055A- 220P	Mond	Back to Atlanta

CONTACT DETAILS:

Hotel/Institutions	Telephone	Website/ Contact
DELHI HOTEL ROYAL PLAZA	Ph + (91) 11 4355- 5555	http://www.hoteltheroyalplaza.com/

19, Ashoka Road, New Delhi-110001		
AGRA Hotel Clarks Shiraz Agra 54, Taj Road, Cantonment, Agra, India 282001	Ph+ (91)- 800-491- 6126	http://www.hotels.com/ho184567/hotel-clarks-shiraz-agra-india/?PSRC=G21&dateless=true&hotelid=184567&rffrid=sem.hcom.US.bing.003.00.02..kwr%3DZzZz.8zewfqRO.0.5598594062.10209uq17991.d.c
BANGALORE IBIS City Centre Hotel, Bangalore Plot No - 30 Rajaram Mohan Roy Road Off Richmond Road 560027 560027 - Bengaluru	PH. (+91)80/42548000	http://www.ibis.com/gb/hotel-6454-ibis-bengaluru-city-centre/index.shtml
DELHI HOST 1 IIT- Indian Institute of Technology Delhi Hauz Khas, New Delhi - 110 016, India	Ph +(91) 011-2659 1999 Ph. +(91) 011-2659 7135	http://www.iitd.ac.in/ T.R.Sreekrishnan
PARIS HOTEL CAMPANILE 9 RUE DU CHEMIN VERT 75011 PARIS	Ph. + (33) 1 43 38 58 08	http://www.campanile.com/en/hotels/campanile-paris-11-bastille
BANGALORE HOST Dayananda Sagar University (DSU) Shavige Malleshwara Hills, Kumaraswamy Layout Bangalore 560 078, Karnataka, India.	011 91 080 – 26662226 Fax : 080 – 26660789	http://www.dayanandasagar.edu/

1. Host institutions:

IIT Delhi: Dr. Satyawati Sharma, Indian Institute of Technology Delhi, Hauz Khas, New Delhi - 110016.

Ph+ 011-91-26591116; (91) 011-2659 1999; (91) 011-2659 7135

Email- satyawatis@hotmail.com

<http://www.iitd.ac.in/>

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Prof. Sneha Anand, Head, CBME

Prashant Mishra, Ph.D.-Phone: 26591015

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Ph + 919880201248

Email- ramanjini@yahoo.com

<http://www.uasbangalore.edu.in/>

DSI: Dr. Ravi (Main host in contact) Dr. Gokare Ravishankar, Vice President, Centre for R&D in Life Sciences & Engg.

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Ph:+ 9886618762,

mail: vinod@sticgroup.com

www.stictravel.com

Travel Agent, USA:

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<http://www.wwt-usa.com/>

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AGRA Hotel Clarks Shiraz Agra 54, Taj Road, Cantonment, Agra, India 282001	Ph+ (91)- 800-491-6126	http://www.hotels.com/ho184567/hotel-clarks-shiraz-agra-india/?PSRC=G21&dateless=true&hoteld=184567&rffrid=sem.hcom.US.bing.003.00.02..kwr%3DZzZz.8zewfqRO.0.5598594062.10209uq17991.d.c
MYSORE HOST 1 Dr Suresh Education and Research Infosys Ltd., No 350, Hebbal Electronics City Hootagalli, Mysore-570018, India	Ph: +(91) 821 40 71100 (Mysore, GEC) M : +(91) 9900053111	http://www.infosys.com/
MYSORE Country Inn & Suites By Carlson Mysore 345/A, Hebbal Industrial Area, Mysore, 570016, India	Ph + (91) 1-800-392-1019	http://hotelbargain.org/hotel/1051361?s1=bing&s2=BP-CHI-4-B&s3=hotel&th=main&kw=
BANGALORE IBIS City Centre Hotel, Bangalore Plot No - 30 Rajaram Mohan Roy Road Off Richmond Road 560027 560027 - Bengaluru	PH. (+91)80/42548000	http://www.ibis.com/gb/hotel-6454-ibis-bengaluru-city-centre/index.shtml
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Ph 0821-2514310

Email- varadaraj@cftri.res.in

<http://www.cftri.com/>

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mail: vinod@sticgroup.com

www.stictravel.com

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<http://www.wwt-usa.com/>

Communitiy Service:

Date	Location	Activity/Event Outcome	Community Service Hours
8/12/2016	Bangalore	Evening-Visit to Cancer & DSI hospitals	6
8/13/2016	Bangalore	Evening-Visit to Orphanages	5
8/14/2016	Bangalore	Afternoon-Visit to rural/urban schools	5

Total Community Service= 16 Hrs

Contacts:

Hotel/Institutions	Telephone	Website/ Contact
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Hotel Clarks Shiraz Agra 54, Taj Road, Cantonment, Agra, India 282001	Ph+ (91)- 800-491-6126	http://www.hotels.com/ho184567/hotel-clarks-shiraz-agra-india/?PSRC=G21&dateless=true&hotelid=184567&rffrid=sem.hcom.US.bing.003.00.02..kwr%3DZzZz.8zewfqRO.0.5598594062.10209uq17991.d.c
Rishikesh Hotel		TBA
Missourree/Dehradun Hotel		TBA
JAIPUR RAMADA JAIPUR Govind Marg, Raja Park, Jaipur, Rajasthan	Ph + (91) 141 4066666	http://www.hotels.com/ho271184/ramada-jaipur-jaipur-india/?PSRC=G21&dateless=true&hotelid=271184&rffrid=sem.hcom.US.bing.003.00.02..kwr%3DZzZz.eNiiCRGS.0.5598587981.10209uq17991.d.c
MYSORE Dr Suresh Education and Research Infosys Ltd., No 350, Hebbal Electronics City Hootagalli, Mysore-570018, India	Ph: +(91) 821 40 71100 (Mysore, GEC) M : +(91) 9900053111	http://www.infosys.com/
Country Inn & Suites By Carlson Mysore 345/A, Hebbal Industrial Area, Mysore, 570016, India	Ph + (91) 1-800-392-1019	http://hotelbargain.org/hotel/1051361?s1=bing&s2=BP-CHI-4-B&s3=hotel&th=main&kw=
IBIS City Centre Bangalore Plot No - 30 Rajaram Mohan Roy Road Off Richmond Road 560027 560027 - Bengaluru	PH. (+91)80/42548000	http://www.ibis.com/gb/hotel-6454-ibis-bengaluru-city-centre/index.shtml
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Karnataka, India.		
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Tour report (Graded- 20 points)
Global Biotechnology-Study Abroad
BIOL 4410

INSTRUCTORS:
Dr Premila Achar

After return from trip, please write below your constructive comments on the various facets of the study abroad program. As you write, bear in mind that your evaluation will assist in the planning for future faculty seminars, as well as for future exchange/study abroad programs.

Type information – feel free to attach additional sheets on your entire experience if you wish to.

Due Date: TBA

Give an a brief account on each of the following (Graded 2 points each):

1. **Lectures:** What did you learn in all the lectures you attended either special lectures arranged for you or the pre lab lectures
2. **Industry Site Visits and Presentations:** Give a summary of each visit and what did you learn?
3. **University Site Visits and Presentations:** Give a summary of each visit and what did you learn?
4. **Seminars:** How do you plan to utilize information gained on the seminar in your study?
5. **Lab/ Internship:** What aspects of the Lab activities contributed most to your learning? (submit your lab notebook in addition to this summary here):
6. **Interaction with host:** Did the structure of the program facilitate interaction with colleagues in the host country?
7. **Cultural sites and Excursions:** Give an account of Cultural Sites and Excursions as well as any other sites visited independently.

8. **Cultures and Traditions:** What did you learn about the Cultures and Traditions of Indians
9. **Cross-cultural communication:** Did the program help you develop cross-cultural communication and adjustment skills? If so, how?
10. **Service Learning:** Give an account of the community service you were involved at during the trip.

Others (Not Graded)

Packing:

What do you wish you had brought from home? What do you wish you had left at home?

Safety:

Were there any circumstances when you felt threatened or unsafe during the program?

Overall Evaluation:

What was the most positive aspect of the program?

What would you change about the program?

Additional comments, advice, suggestions?

INSTRUCTOR:

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NOTE : ALL ASSIGNMENTS, LAB NOTEBOOK, REPORT, TO BE SUBMITTED TO OFFICE # 526, COLLEGE OF SCIENCE AND MATHS ; NO EMAIL ATTACHMENT WILL BE ACCEPTED ; PRETRIP QUIZ WILL BE POSTED ON d2I

