Cytogenetic Technology – UT MD Anderson's School of Health Professions (SHP) (Associate of Science)

Clinical cytogenetics is the specialty that studies cell division and the structure of chromosomes as applied to the diagnosis and monitoring of acquired and inherited abnormalities. The most widely recognized use of cytogenetics is the study of inherited disorders through prenatal diagnosis by amniocentesis and chorionic villus sampling or postnatal diagnosis by peripheral blood studies. Cytogenetic technology is also used in the study of acquired chromosomal abnormalities present in various forms of cancer. The primary responsibility of the clinical cytogenetic technologist is the analysis and karyotyping of human chromosome preparations. The clinical genetics technologist must be able to perform all aspects of the cytogenetic procedure. Cytogenetics requires a basic understanding of cell culture and the cell growth cycle, the biochemistry of staining procedures, microscopy, computer imaging, and new techniques in molecular cytogenetics.

First Year

SEMESTER	COURSE CODE	COURSE NAME	CREDITS
FIRST SEMESTER	EDUC 1100	Learning Frameworks	1
	ENGL 1301	Composition–Rhetoric	3
	BIOL 1406	Biology for Science Majors I	4
	HIST 1301	U.S. History to 1877	3
	CHEM 1411	General Chemistry I	4
	Total Credits		**15**
SECOND SEMESTER	BIOL 1407	Biology for Science Majors II	4
	ENGL 1302	Composition–Rhetoric	3
	HIST 1302	U.S. History since 1877	3
	CHEM 1412	General Chemistry II	4
	MATH 1314 or higher	College Algebra	3
	Total Credits		**17**

Second Year

SEMESTER	COURSE CODE	COURSE NAME	CREDITS
FIRST SEMESTER	GOVT 2305	U.S. Government	3
	CHEM 2423	Organic Chemistry I	4
	PSYC 2314	Lifespan Growth & Development	3
	LPC	Elective (See Advisor)	3
	SPCH 1321	Business and Professional Communication	3
	Total Credits		**16**
SECOND SEMESTER	GOVT 2306	State and Local Government	3
	CHEM 2425	Organic Chemistry II	4
	MUSI 1306	Music Appreciation	3
	BIOL 2420	Microbiology	4
	Total Credits		**14**

Grand Total: 62 Credits

Cytogenetic Technology Program

Additional Information

1. Satisfactorily complete all other admission requirements within the set timelines and before any set deadlines, including completing an admissions application; paying the application fee; submitting transcripts, recommendation forms, and an essay; and completing an admission interview; and

2. Have maintained no less than a cumulative 3.50 GPA, and a 3.50 science and mathematics GPA in the courses taken at PJC and be eligible for graduation from PJC.

    a. The cumulative GPA is calculated using all college-level courses, whether passed, failed, or repeated. Remedial-level courses will not be calculated in the cumulative GPA.
    b. The science and mathematics GPA is calculated using college-level mathematics and science courses only.

Remedial-level courses will not be calculated in the science and mathematics GPA. If a course is repeated, the higher grade is used for the science and mathematics prerequisite requirements.

SHP reserves the right not to admit any PJC student if SHP determines that a PJC student has not satisfactorily met all of the admission requirements and has not met the other conditions of this Agreement.

Contact Information: If you have questions about admission into this program or would like to know more about it, please contact:

Dr. Jack Brown
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2400 Clarksville St.
Paris Texas 75460
P- 903-782-0319
E- jbrown@parisjc.edu

Medical Laboratory Science - UT MD Anderson's School of Health Professions (SHP) (Associate of Science)

Medical Laboratory Scientists are detectives and problem solvers who use their knowledge and technical skills to conduct a wide variety of medical laboratory tests and then correlate the results with disease processes. They are experts in monitoring quality-control programs and also possess the technical skills to operate and maintain laboratory instruments. Students learn biochemical tests to identify unknown pathogens, learn to perform 100s of chemical assays providing the lab results physicians need to diagnose and monitor patients, and learn to identify abnormalities, such as infections, anemia, leukemia, or tumors in smears of blood, bone marrow, and other bodily fluids. Students also learn to perform gel card testing to determine the presence of RBC antibodies that can impact transfusion.

First Year

SEMESTER	COURSE CODE	COURSE NAME	CREDITS
FIRST SEMESTER	EDUC 1100	Learning Frameworks	1
	ENGL 1301	Composition–Rhetoric	3
	BIOL 1406	Biology for Science Majors I	4
	HIST 1301	U.S. History to 1877	3
	CHEM 1411	General Chemistry I	4
	Total Credits		**15**
SECOND SEMESTER	BIOL 1407	Biology for Science Majors II	4
	ENGL 1302	Composition–Rhetoric	3
	HIST 1302	U.S. History since 1877	3
	CHEM 1412	General Chemistry II	4
	MATH 1314 or higher	College Algebra	3
	Total Credits		**17**

Second Year

SEMESTER	COURSE CODE	COURSE NAME	CREDITS
FIRST SEMESTER	GOVT 2305	U.S. Government	3
	CHEM 2423	Organic Chemistry I	4
	PSYC 2314	Lifespan Growth & Development	3
	LPC	Elective (See Advisor)	3
	SPCH 1321	Business and Professional Communication	3
	Total Credits		**16**
SECOND SEMESTER	GOVT 2306	State and Local Government	3
	CHEM 2425	Organic Chemistry II	4
	MUSI 1306	Music Appreciation	3
	BIOL 2420	Microbiology	4
	Total Credits		**14**

Grand Total: 62 Credits

Medical Laboratory Science Program

Additional Information

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Cytotechnology - UT MD Anderson's School of Health Professions (SHP)

(Associate of Science)

Cytotechnologists are versatile, highly specialized members of the Anatomic Pathology team. They work closely with pathologists and are primarily focused on microscopically identifying infectious agents and abnormal cellular changes, including those associated with cancer. In this era of precision medicine, the scope of practice for the field of cytotechnology is evolving! In addition to evaluating the cellular morphology of preparations, cytotechnologists often perform ancillary high-complexity testing, like Urovysion testing in cytogenetics, HPV genotyping in the diagnostic molecular lab, preliminary immunohistochemical stain analysis, and flow cytometric assays to evaluate solid tumors. Today, cytotechnologists are being trained to correlate concurrent test results with cytologic findings to assist pathologists and clinicians with solving diagnostic puzzles.

First Year

SEMESTER	COURSE CODE	COURSE NAME	CREDITS
FIRST SEMESTER	EDUC 1100	Learning Frameworks	1
	ENGL 1301	Composition–Rhetoric	3
	BIOL 1406	Biology for Science Majors I	4
	HIST 1301	U.S. History to 1877	3
	CHEM 1411	General Chemistry I	4
	Total Credits		**15**
SECOND SEMESTER	BIOL 1407	Biology for Science Majors II	4
	ENGL 1302	Composition–Rhetoric	3
	HIST 1302	U.S. History since 1877	3
	CHEM 1412	General Chemistry II	4
	MATH 1314 or higher	College Algebra	3
	Total Credits		**17**

Second Year

SEMESTER	COURSE CODE	COURSE NAME	CREDITS
FIRST SEMESTER	GOVT 2305	U.S. Government	3
	BIOL 2401	Anatomy and Physiology I	4
	PSYC 2314	Lifespan Growth & Development	3
	LPC	Elective (See Advisor)	3
	SPCH 1321	Business and Professional Communication	3
	Total Credits		**16**
SECOND SEMESTER	GOVT 2306	State and Local Government	3
	BIOL 2402	Anatomy and Physiology II	4
	MUSI 1306	Music Appreciation	3
	BIOL 2420	Microbiology	4
	Total Credits		**14**

Grand Total: 62 Credits

[Cytotechnology Program]

Additional Information

1. Satisfactorily complete all other admission requirements within the set timelines and before any set deadlines, including completing an admissions application; paying the application fee; submitting transcripts, recommendation forms, and an essay; and completing an admission interview; and

2. Have maintained no less than a cumulative 3.50 GPA, and a 3.50 science and mathematics GPA in the courses taken at PJC and be eligible for graduation from PJC.

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Histotechnology - UT MD Anderson's School of Health Professions (SHP)

(Associate of Science)

Histotechnologists play a fundamental role in detecting cellular abnormalities by preparing and testing surgical and biopsied tissue specimens for microscopic examination by pathologists. A histotechnologist prepares very thin slices of human, animal, or plant tissue for microscopic examination. This is an important part of the intricate process of scientific investigation used in establishing and confirming a patient's diagnosis. Because of the histotechnologist's skillful application of laboratory techniques, the amazing invisible world of tissue structure becomes visible under a microscope.

First Year

SEMESTER	COURSE CODE	COURSE NAME	CREDITS
FIRST SEMESTER	EDUC 1100	Learning Frameworks	1
	ENGL 1301	Composition–Rhetoric	3
	BIOL 1406	Biology for Science Majors I	4
	HIST 1301	U.S. History to 1877	3
	CHEM 1411	General Chemistry I	4
	Total Credits		**15**
SECOND SEMESTER	BIOL 1407	Biology for Science Majors II	4
	ENGL 1302	Composition–Rhetoric	3
	HIST 1302	U.S. History since 1877	3
	CHEM 1412	General Chemistry II	4
	MATH 1314 or higher	College Algebra	3
	Total Credits		**17**

Second Year

SEMESTER	COURSE CODE	COURSE NAME	CREDITS
FIRST SEMESTER	GOVT 2305	U.S. Government	3
	BIOL 2401	Anatomy and Physiology I	4
	PSYC 2314	Lifespan Growth & Development	3
	LPC	Elective (See Advisor)	3
	SPCH 1321	Business and Professional Communication	3
	Total Credits		**16**
SECOND SEMESTER	GOVT 2306	State and Local Government	3
	COSC 1301	Introduction to Computing	3
	MUSI 1306	Music Appreciation	3
	BIOL 2402	Anatomy and Physiology II	4
	Total Credits		**13**

Grand Total: 61 Credits

Histotechnology Program

Additional Information

1. Satisfactorily complete all other admission requirements within the set timelines and before any set deadlines, including completing an admissions application; paying the application fee; submitting transcripts, recommendation forms, and an essay; and completing an admission interview; and

2. Have maintained no less than a cumulative 3.00 GPA, and a 3.00 science and mathematics GPA in the courses taken at PJC, and be eligible for graduation from PJC.

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Molecular Genetic Technology - UT MD Anderson's School of Health Professions (SHP) (Associate of Science)

Molecular genetic technologists study the role of genetics in medicine, Mendelian genetics, multifactorial inheritance, DNA structure, chromosome structure, population genetics, mutation rates, ethnicity of disease, and genetic mapping in a diagnostic setting. Molecular genetic technology examines genes at a molecular level using advanced techniques to analyze their structure, function, inheritance, and the effects of mutations or DNA sequence changes. This information helps enhance our understanding of genetic diseases, develop genetic therapies, and improve DNA-based diagnostic methods. They use their expertise to identify disease-causing mutations, assist in diagnosing diseases, tailor treatments, and monitor responses. They can also contribute to forensic science by aiding in human identification and supporting mass casualty investigations through DNA-based analysis.

First Year

SEMESTER	COURSE CODE	COURSE NAME	CREDITS
FIRST SEMESTER	EDUC 1100	Learning Frameworks	1
	ENGL 1301	Composition–Rhetoric	3
	BIOL 1406	Biology for Science Majors I	4
	HIST 1301	U.S. History to 1877	3
	CHEM 1411	General Chemistry I	4
	Total Credits		**15**
SECOND SEMESTER	BIOL 1407	Biology for Science Majors II	4
	ENGL 1302	Composition–Rhetoric	3
	HIST 1302	U.S. History since 1877	3
	CHEM 1412	General Chemistry II	4
	MATH 1342	Statistics	3
	Total Credits		**17**

Second Year

SEMESTER	COURSE CODE	COURSE NAME	CREDITS
FIRST SEMESTER	GOVT 2305	U.S. Government	3
	CHEM 2423	Organic Chemistry I	4
	PSYC 2314	Lifespan Growth & Development	3
	LPC	Elective (See Advisor)	3
	SPCH 1321	Business and Professional Com.	3
	Total Credits		**16**
SECOND SEMESTER	GOVT 2306	State and Local Government	3
	CHEM 2425	Organic Chemistry II	4
	MUSI 1306	Music Appreciation	3
	BIOL 2420	Microbiology	4
	Total Credits		**14**

Grand Total: 62 Credits

[Molecular Genetic Technology Program]

Additional Information

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