

APPENDIX A: Comparable Colleges and Universities

CANISIUS COLLEGE

Location: Buffalo, New York

Affiliation: Catholic, Jesuit

John Carroll's parent school in Buffalo, New York, is obviously Catholic and Jesuit. Canisius offers a minor in forensic psychology that looks very much like the minor that we are proposing for John Carroll. As with the minor proposed for John Carroll the minor in forensic psychology at Canisius requires background course work in statistics and research methodology but does not require physical science courses beyond the core requirement. At Canisius the majority of the courses in the minor are criminal justice courses that look very much like the existing course work here at John Carroll. Fifteen hours of required course work includes "Abnormal Psychology", "Forensic Psychology", "Adolescent Psychology", "Criminal Justice I", and "Criminal Justice II". In addition students minoring in forensics at Canisius are required to select one course from a menu of psychology courses and one course from a menu of criminal justice courses. A notable inclusion in the Canisius course work is a course on "Criminal Justice Ethics".

FORENSIC PSYCHOLOGY MINOR

(7 courses - 21 credits)

The Forensic Psychology minor, open to both majors and non-majors, focuses on the application of psychology to law and criminal justice, including the clinical, applied and research activities where these disciplines intersect. *(Non-majors must complete the following 15 hours of prerequisites before beginning the minor: PSY 101, PSY 102, PSY 201 (or equivalent Field 7 statistics course), and PSY 202 (or equivalent research methods course.)*

Required Courses

PSY 303 Abnormal Psychology	3 credits
PSY 369 Forensic Psychology	3 credits
PSY 307 Adolescent Psychology	3 credits
CRJ 227 Criminal Justice I	3 credits
CRJ 228 Criminal Justice II	3 credits

Psychology elective: take ONE of the following courses:

PSY 334 - Child, Family and Community Psychology	3 credits
PSY 373 - Behavior Modification	3 credits
PSY 382 - Child Psychopathology	3 credits
PSY 395 - Assessment in the Behavioral Sciences	3 credits
PSY 452 - Theories and Techniques of Counseling	3 credits
PSY 498F - Psychology Practicum	3 credits

Criminal Justice elective: take one of the following courses:

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CRJ 320 – American Constitutional Law I	3 credits
CRJ 337 – Violence and the Family	3 credits
CRJ 344 – Violent Crime in American Society	3 credits
CRJ 351 – Police and the Community	3 credits
CRJ 354 – Juvenile Delinquency	3 credits
CRJ 356 – Treatment of Offenders I	3 credits
CRJ 357 – Treatment of Offenders II	3 credits
CRJ 449 – Criminal Law	3 credits
CRJ 450 – Criminal Procedure	3 credits
CRJ 482 – Criminal Justice Ethics	3 credits

COLORADO, UNIVERSITY OF

Location: Denver

Affiliation: None

The University of Colorado is not demographically comparable to us. It is an urban campus that is ten times our size and located in the far West. Its interest to us, however, is the fact that the forensics minor is located in the Department of Criminal Justice and requires only one specialized physical science course in "Forensic Chemistry and Toxicology". The 33 hour minor includes the "classic" forensics crime scene and crime lab courses. Of interest to us, however, are such behavioral courses as "Sexual Assault: Implications for Health Care", "Psychosocial and Legal Aspects of Forensic Science", "Violence and Human Rights Issues", and "Substance Abuse". It also includes a senior practicum for the minor.

FORENSIC MINOR

Required Courses	Credit Hours
HSCI 430 Sexual Assault: Implications for Health Care	3
*HSCI 431 Introduction to Forensic Science	3
*HSCI 432 Investigation of Death and Injury	3
*HSCI 433 Crime Scene and Crime Lab	3
*HSCI 434 Psychosocial & Legal Aspects of Forensic Science	3
HSCI 437 Violence and Human Rights Issues	3
HSCI 438 Substance Abuse	3
HSCI 439 Forensic Photography	4
HSCI 440 Forensic Practicum (Pre-reqs HSCI 431, 432)	4
HSCI 441 Forensic Chemistry and Toxicology	4
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HILBERT COLLEGE

Location: Hamburg, New York

Affiliation: Catholic, Franciscan

Hilbert College in Hamburg, New York is a very small Franciscan institution that offers both a major and a minor in forensics. Its forensics program provides an excellent model for our efforts, here. The minor requires only 18 hours offered in three different departments: criminal justice, psychology, and forensic science and these courses are primarily introductory. Additional hours in physical science are included as part of the regular curriculum but no special course work in forensic science is required beyond the core requirements. Currently, the Department of Psychology and the Department of Sociology and Criminology at John Carroll offer all of the fundamental course work found at Hilbert. Courses at Hilbert that we do not now offer include: "Special Topics", "Environmental Investigations", "Laws and Rules of Evidence", and "Criminal Investigation/Criminalistics".

FORENSICS MINOR

Must take the following five courses:

CJ 101	Introduction to Criminal Justice
CJ 204	Crime and Society
FS 101	Introduction to Forensic Science
FS 318	Special Topics in Forensic Science I
FS 319	Special Topics in Forensic Science II

May take any course listed within this group:

CJ 314	Environmental Investigations
CJ 315	Laws and Rules of Evidence
CJ 404	Criminal Investigation/Criminalistics
PSY 410	Forensic Psychology

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LOYOLA UNIVERSITY OF CHICAGO

Location: Chicago, Illinois

Affiliation: Catholic, Jesuit

Loyola University of Chicago offers an undergraduate minor in the area of forensic psychology. Here, the departments of criminal justice and psychology at Loyola offer courses in "Criminal Courts and Law", "Criminal Procedure", and "Social, Legal, and Ethical Issues". Their program does not require any additional physical science beyond basic university requirements. They also offer the following program in computer forensics.

COMPUTER CRIME AND FORENSICS MINOR

Requirements

- * CRMJ 131 -- Introduction to Criminal Justice
- * COMP 150 -- Introduction to Computing
- * COMP 340 -- Computer Forensic Investigation
- * COMP 347 -- Intrusion Detection

One course from the following:

- * CRMJ 322 -- Criminal Courts and Law
- * CRMJ 323 -- Criminal Procedure

One course from the following:

- * COMP 264 -- Introduction to Computer Systems
- * COMP 317 -- Social, Legal, and Ethical Issues in Computing
- * COMP 343 -- Computer Networks

MARYLAND, UNIVERSITY OF

Location: Baltimore

Affiliation: State University

The University of Maryland offers a Minor in Investigative Forensics. This is a 40 hour minor with all courses offered in the College of Criminal Justice. The University of Maryland emphasizes the relationship of all its special programs to the overall educational efforts of the university. General university requirements for all students include 12 hours in

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communications, 6 hours in social and behavioral sciences and 10 hours in physical sciences and mathematics. The University of Maryland minor has defined assessment goals that are integrated into the goals of the core curriculum. These address the six Core Learning Areas: written communication, technology fluency, information literacy, quantitative literacy, critical thinking, and scientific literacy.

TWO "TRACKS":

- (A) Baccalaureate Degree Program in Investigative Forensics;**
- (B) Minor in Investigative Forensics**

MAJOR IN INVESTIGATIVE FORENSICS

PROGRAM OVERVIEW

The major in investigative forensics provides a thorough foundation in the knowledge and skills necessary to process and report on physical evidence at a crime scene or in connection with an investigation of civil liability. The curriculum, based on national guidelines, provides students with a basic foundation in investigative, scientific, and laboratory-based forensics and introduces students to the various disciplines that make up the forensic collaborative work group. The major prepares students for career opportunities focused on the investigatory aspects of forensics.

PROGRAM OF STUDY

GENERAL EDUCATION REQUIREMENTS

Communications	12 credit hours
Arts and Humanities	6 credit hours
Behavioral and Social Sciences	6 credit hours
Biological and Physical Sciences	7 credit hours
Mathematics	3 credit hours
Interdisciplinary or Emerging Issues	7 credit hours

CROSS-CURRICULAR PERSPECTIVE REQUIREMENTS

Historical Perspective	3 credit hours
International Perspective	3 credit hours
Civic Responsibility Perspective	3 credit hours

REQUIRED COURSES

CCJS 100 Introduction to Criminal Justice	3 credit hours
CCJS 234 Criminal Procedures and Evidence	3 credit hours
CCJS 320 Introduction to Criminalistics	3 credit hours

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WRTG 393/393X Technical Writing	3 credit hours
CCJS 461 Psychology of Criminal Behavior or PSYC 370	3 credit hours
CCJS 420 Medical and Legal Investigations of Death	3 credit hours
CCJS 421 Computer Forensics	3 credit hours
FSCN 306 Incendiary-Fire Analysis and Investigation	3 credit hours
CCJS 486A Internship in Criminal Justice Through Co-op	3 credit hours
CCJS 425 Forensics Lab	3 credit hours
One other CCJS Course	3 credit hours

MINOR IN INVESTIGATIVE FORENSICS

(40 credit hours)

Minor and/or elective courses are to be taken in the last 60 hours along with required major courses. Refer to the current UMUC School of Undergraduate Studies Catalog for the minor and/or elective course requirements.

All UMUC degree programs are required to imbed identified Core Learning Areas into the program of study. The Core Learning Areas are:

- Written Communication
- Technology Fluency
- Information Literacy
- Quantitative Literacy
- Critical Thinking
- Scientific Literacy

In the UMUC Institutional Plan for the Assessment of Student Learning the expanded definition for each Core Learning Area was considered in creating the respective program outcome. The UMUC Criminal Justice Advisory Board is comprised of criminal justice professionals, full-time and adjunct faculty members, practicing lawyers, law enforcement personnel, security professionals, computer forensic professionals, forensic scientists, and CCJS graduates. The Board provides input on curriculum to keep current with trends and needs in the field of criminal justice.

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METHODIST COLLEGE

Location: Fayetteville, North Carolina

Affiliation: Methodist

Methodist College is a well-respected religiously affiliated institution. We note their efforts for two reasons: 1) they are a private, faith-based institution, that is about our size and 2) they offer two “tracks” in forensic education. Methodist College has, we think, very astutely and appropriately addressed a “split” in the academic community by designing these two tracks: one track, a B.S. in justice studies with a concentration in forensic science, does not emphasize physical science while the other, a B.S. in chemistry with a concentration in forensic science does. The first option is very strong on course work in justice studies and forensic science. The second option is very strong in chemistry and mathematics and includes 18 credit hours of justice studies as well. The work of Methodist College provides a very good model for our own efforts to create a minor.

TWO “TRACKS: (A) AND (B)”

(A) B.S. IN JUSTICE STUDIES WITH A CONCENTRATION IN APPLIED FORENSIC SCIENCE *(27 Credit Hours)*

JUS 242	Intro to Forensic Science	3
JUS 389	Criminal Evidence and Procedure	3
JUS 390	Victimology	3
JUS 396	Criminal Profiling	3
JUS 401	The Investigative Process	3
JUS 410	Medico-legal Investigation of Death	3
PHI 212	Symbolic Logic	3
JUS 397	Crime Scene Investigation	3
JUS 415	Forensic Firearms Identification	3

(B) B.S. IN CHEMISTRY WITH A CONCENTRATION IN FORENSIC SCIENCE

Required Chemistry Courses (22–23 Credit Hours)

CHE 151	Chemistry I	4
CHE 152	Chemistry II	4
CHE 311	Quantitative Analysis	4

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CHE 312	Instrumental Analysis	4
CHE 321	Organic Chemistry I	4
CHE 322	Organic Chemistry II	4
CHE 450	Biochemistry	4
CHE 486/7	Library / Laboratory Research	1 or 2
Chemistry Electives (Choose one of the following: 3–4 Credits)		
CHE 310	Inorganic Chemistry	3
CHE 421	Physical Chemistry I	4
CHE 422	Physical Chemistry II	4
CHE 485	Special Topics	3
Additional Science and Math (28 - 29 Credit Hours)		
PHY 151	Physics I	4
PHY 152	Physics II	4
BIO 153	Fundamentals of Biology	4
BIO 307/396	Microbiology or Molecular Biology	4 or 3
BIO 321/317	Insect Biology or Local Flora	4
MAT 220	Applied Statistics	3
MAT 231	Calculus I	3
MAT 232	Calculus II	3
Justice Studies (18 Credit Hours)		
JUS 242	Intro to Forensic Science	3
JUS 309	Criminology	3
JUS 389	Criminal Evidence & Procedure	3
JUS 401	The Investigative Process	3
JUS 420	Ethical Foundations in Criminal Justice	3
JUS 470	Internship	3

NEVADA, UNIVERSITY OF

The University of Nevada's interdisciplinary *major* offers a very good overall conceptualization of the general area of forensics. The University of Nevada has divided the forensic sciences into three general categories: Legal Systems, Scientific Techniques, and The Human Body. All students majoring in forensic science must take some courses from each area but each student takes most of their courses from one area they have specified as their concentration.

Separating forensic science into Legal Systems, Scientific Techniques, and The Human Body is important to us first because it is likely that individual

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students are interested in and are preparing for careers in one of these general areas, not all of them. Second, although the University of Nevada is able to create and offer course work across all of these areas it is not likely that smaller private schools such as John Carroll University can. We can and have focused on developing one area, behavioral forensic science, which actually draws from each of the three categories constructed at the University of Nevada.

Curriculum Alignment of Student Learning Outcomes

All majors will complete a Capstone course related to their career goal.

- ANTH 491 Internship in Anthropology or
- ANTH 499 Independent Research or
- BIOL 492 Undergraduate Research or
- CRJ 491 Internship in Criminal Justice or CRJ 499 Independent Study

Legal Systems:

All majors will take at least 8 of the following courses:

- ANTH 407/CRJ 407 Law in Non-Western Societies or CRJ 411H Comparative Law
- ANTH 422 Psychological Anthropology
- CRJ 104 Introduction to Administration of Justice
- CRJ 130 Survey of Criminal Law
- CRJ 164 Principles of Criminal Investigation
- CRJ 225 Criminal Evidence
- CRJ 270 Introduction to Criminology
- CRJ 311 Forensic Science
- PHI 101 Introduction to Philosophy
- PHI 320 Philosophy of Law

Majors who concentrate in legal systems take courses from the following:

- CRJ 313 Law, Police and Community
- CRJ 325 Serial Killers & Sexual Predators
- CRJ 428 / WOM 428 Women and Crime
- CRJ 429 Gender and Crime
- CRJ 435 Jury Decision Making
- CRJ 441 Social Science in Law
- CRJ 445 Police Administration
- CRJ 469 / PSY 469 Psychology and the Legal System
- PSC 332 Judicial Process
- PSC 411B / CRJ Constitutional Law: Civil Rights

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- PSY 441 Abnormal Psychology
- SOC 431 Crime and Criminal Behavior

Scientific Techniques

All majors will take courses in each of these areas:

- Physics
 - PHYS 151/151L General Physics
- Chemistry
 - CHEM 121/121L General Chemistry I
 - CHEM 122/122L General Chemistry II
 - CHEM 242/242L Organic Chemistry I
 - CHEM 325/327 Organic Chemistry II
- Biological Sciences
 - BIOL 189/189L Fundamentals of Life Science
 - BIOL 196/196L Principles of Modern Biology I
- Quantitative Methods
 - MATH 126 Precalculus Mathematics or STA 152 Introductory Statistics
 - CRJ 302 Quantitative Applications in Criminal Justice or HSC 300 Statistics for the Health Sciences or STAT 491 Statistics for Scientists I or PSY 210 Statistical Methods in Psychology or SOC 210 Introduction to Statistical Methods

Majors who concentrate in Scientific techniques will take at least 8 of the following courses:

- BIOL 300/300L Principles of Genetics
- BIOL 320 Invertebrate Zoology
- BIOL 405 Molecular Biology
- BIOL 437 General Entomology
- BIOL 468/468L Histology
- CHEM 474 Biochemistry I
- CHEM 475 Biochemistry II
- CLS 412 / CLS 413L Clinical Immunology
- CLS 422 Clinical Hematology I + CLS 423 Lab
- CLS 432 Clinical Microbiology I + CLS 433 Lab
- CLS 442 Clinical Chemistry I + CLS 443 Lab

The Human Body (Crime Scene Investigation)

All majors take courses from the following:

- COM 101 Oral Communication

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- PHI 101 Introduction to Philosophy
- ANTH 101 Introduction to Anthropology
- PSY General Psychology
- ANTH 105 Introduction to World Archeology
- ANTH 468 Human Genetic Variation
- ANTH 102/110L Introduction to Physical Anthro Lab
- ANTH 468 Techniques of Forensic Research

Majors who concentrate in Human Body/CSI: take courses from the following:

- MSFS 301x Crime Scene Investigation (new spring 2006)
- MSFS 401x The Science of Fingerprints
- ANTH 462 Human Osteology
- ANTH 479 Selected Topics in Physical Anthropology
- ANTH 464 Dental Anthropology
- ANTH 463 Advanced Human Osteology
- ANTH 447 Archaeological Field Methods
- BIOL 350 Comparative Vertebrate Anatomy
- BIOL 440 Mammalian Physiology
- CMI 310 Medical Imaging
- CMI 376 Sectional Anatomy in Medical Imaging
- NURS 454 Introduction to Forensic Nursing

SOUTH CAROLINA, UNIVERSITY OF

Location: Columbia, South Carolina

Affiliation: None

The University of South Carolina provides yet another paradigm for approaching the creation of an interdisciplinary minor in forensics. Their minor is comprised of courses from American studies, law, philosophy, political science, psychology, sociology, religion and public policy administration. Students construct their minor from menus of classes; they are required to take one class each from the following *categories* of coursework: "The Individual in Society", "Social Class and Criminality", "The System of Criminal Justice", and "Crime and Punishment". The size of the university and its curriculum provides considerable latitude that we cannot replicate but the integration of technically based course work with broader academic course work of the liberal arts and sciences serves as a model for

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our own efforts.

INTERDISCIPLINARY MINOR IN FORENSICS AND CRIMINALITY (20 units)

***Lower-division requirement (4 units) Choose one course
from below:*** **Units**

AMST 101	Race and Class in Los Angeles	4
LAW 200x	Law and Society	4
PHIL 140	Contemporary Moral and Social Issues	4
POSC 130	Law, Politics, and Public Policy	4
PSYC 100	Introduction to Psychology	4
PSYC 155	Psychological Perspectives on Social Issues	4
PSYC 165L	Drugs, Behavior, and Society	4
SOCI 142	Diversity and Racial Conflict	4
SOCI 150	Social Problems	4
SOCI 200	Introduction to Sociology	4

***Upper division requirements (16 units) Choose one course
from each group below:***

The Individual in Society

PSYC 355*	Social Psychology, or	4
SOCI 320	Social Psychology	4
PSYC 360*	Abnormal Psychology	4
PSYC 463*	Criminal Behavior	4
PSYC 465*	Introduction to Forensic Psychology	4
REL 341	Ethics in a Technological Society	4
REL 375	Conflict and Change and the Ethics of Business	4
	* Prerequisite: PSYC 100	

Social Class and Criminality

SOCI 350	Deviant Behavior	4
SOCI 351	Juvenile Delinquency and the Juvenile Justice System	4
SOCI 360	Social Inequality: Class, Status, and Power	4

The System of Criminal Justice

LAW 402	Psychology and Law	4
LAW 403	Mental Health Law	4
PHIL 430	Philosophy of Law	4
PHIL 437	Social and Political Philosophy	4
POSC 340	Constitutional Law	4

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POSC 426	The United States Supreme Court	4
POSC 444	Civil and Political Rights and Liberties	4
PPD 340	The American System of Justice	4
<i>Crime and Punishment</i>		
POSC 432	The Politics of Local Criminal Justice	4
PPD 342	Crime and Public Policy	4
SOCI 353	Sociology of Crime and of the Criminal Justice System	4

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ST. LOUIS UNIVERSITY

Location: St. Louis, Missouri
Affiliation: Jesuit

St. Louis University is included here for its creative and systematic approach to the diversity of undergraduate students who are interested in the area of forensics and the responsibility to provide them with all of the key academic pieces and parts. The course work is the basic "nuts and bolts" of forensics. At SLU, a certificate in forensic science is available to any major through the Department of Sociology and Criminal Justice. Important for our consideration is that SLU's three versions of this certificate reflect the different requirements for students of different academic backgrounds: The certificate in forensic science for science majors (21 hours), for criminal justice majors (23 hours) and for all other majors (29 hours.)

CERTIFICATE IN FORENSIC SCIENCE

The Department of Sociology and Criminal Justice offers a certificate in Forensic Science. The certificate is available to any major, and is designed to prepare students to work in either criminal investigations or a criminal laboratory. The certificate consists of between 21 and 29 hours (depending on the student's major) of course work, which includes six hours of practicum placement in a real work environment. Required courses include the following:

Certificate in Forensic Science For Science Majors (21 hours)

SOC 190 Introduction to Criminal Justice	(3)
SOC 232 Law Enforcement	(3)
SOC 260 Introduction to Forensic Sciences	(3)*
SOC 439 Criminal Law and Procedure	(3)
SOC 446 Criminal Investigations	(3)
SOC 400 Field Work Practicum	(6)

Certificate in Forensic Science For Criminal Justice Majors (23 hours)

SOC 260 Introduction to Forensic Science	(3)*
SOC 261 Forensic Biology	(4)
SOC 261-36 Forensic Biology LAB	

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SOC 262 Chemical Analysis of Crime	(4)
SOC 262-36 Chemical Analysis of Crime LAB	
SOC 439 Criminal Law and Procedure	(3)
SOC 446 Criminal Investigations	(3)
SOC 400 Field Work Practicum	(6)

Certificate in Forensic Science For All Other Majors (29 hours)

SOC 190 Introduction to Criminal Justice	(3)
SOC 232 Law Enforcement	(3)
SOC 260 Introduction to Forensic Science	(3)*
SOC 261 Forensic Biology	(4)
SOC 261-36 Forensic Biology LAB	
SOC 262 Chemical Analysis of Crime	(4)
SOC 262-36 Chemical Analysis of Crime LAB	
SOC 439 Criminal Law and Procedure	(3)
SOC 446 Criminal Investigations	(3)
SOC 400 Field Work Practicum	(6)

* Introduction to Forensic Science (SOC 260) is a pre-requisite for Forensic Biology (SOC 261) and Chemical Analysis of Crime (SOC 262)