Graduate Academic Catalog

2019- 2020

Yeshiva University I The Katz School of Science and Health

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YESHIVA UNIVERSITY

Yeshiva University is the world's premier Jewish institution for higher education. Rooted in Jewish thought and tradition, it sits at the educational, spiritual and intellectual epicenter of a robust global movement that is dedicated to advancing the moral and material betterment of the Jewish community and broader society, in the service of God.

In September 2017, Ari Berman was inaugurated as the fifth president of Yeshiva University. He succeeded Richard M. Joel, who was inaugurated in 2003, and Norman Lamm, who had held the office since 1976. President Berman's two other predecessors were Bernard Revel, president from 1915 to 1940, and Samuel Belkin, who served from 1943 to 1975.

Visit https://www.yu.edu for more information about Yeshiva University.

UNIVERSITY POLICIES

Equal Opportunity

http://yu.edu/student-life/resources-and-services/standards-policies/; http://yu.edu/hr/policies/ and http://yu.edu/ogc/policies/ (among other places). This policy includes information about filing a report, seeking a response and options for confidential disclosure. The University will respond to all complaints promptly, thoroughly, fairly and impartially. Retaliation is prohibited against anyone who filed and/or participated in the investigation of a complaint, even if the complaint is unsubstantiated. When warranted, the University will take appropriate, corrective action to remedy all violations of this policy, up to and including termination and/or

Program Codes

All programs are registered by the New York State Education Department and meet its educational requirements.

HEGIS Code	Title	Degree
1220.00	MS in Speech-Language Pathology	Master of Science
2204.00	MS in Quantitative Economics	Master of Science
0702.00	MS in Data Analytics and Visualization	Master of Science
0499.00	MS in Biotechnology Management and Entrepreneurship	Master of Science
0701.00	MS in Cyber Security	Master of Science
1701.00	MA in Mathematics	Master of Arts
0509.00	MS in Digital Marketing and Media	Master of Science
1902.00	MA in Physics	Master of Arts

ACADEMIC POLICIES, STANDARDS AND EXPECTATIONS

Academic Calendar

Yeshiva University operates on the semester system. The academic year consists of three semesters: two 15-week semesters (fall and spring) and one 10-week semester (summer); the semester length includes examinations and/or final projects. The fall term runs from late August or early September to the end of December; the spring term runs from late January to late May. The summer term runs from late May to mid-August. Classes may meet Sunday through Friday. The Academic Calendars for Fall, Spring and Summer can be found online at https://www.yu.edu/registrar/grad-calendar/.

Attendance

For all programs that meet in face-to-face format, students are expected to attend all scheduled classes in their entirety. Students who fail to fulfill this requirement will receive an academic penalty appropriate for the course work missed.

Students may not miss 30% or more of their scheduled class. If a student misses 30% or more of a course during the semester, they will receive a final grade of "F." This grade will be reflected on the student's official university transcript.

For programs within clinical components students may not miss 20% or more of any course, or clinical. At the Katz School, this pertains to only to students in the Speech Language Pathology program. If a student misses 20% or more of a course during the semester, they will receive a final grade of "F." This grade will be reflected on the student's official university transcript.

If the student is absent because of a disability which is documented with the Office of Disability Services at Yeshiva, falls ill or there are other extenuating circumstances, the student must inform the instructor in advance. The instructor may require appropriate documentation to make any exception to this policy.

Time Limitations

A student must complete the requirements for the master's degree within five years of the first semester the student enrolled in the program. Studentwi. S -9.1 (eg)- c ScedTw 40 bed ylnf

Grades

Students may access their grades at www.yu.edu/myyu. To view grades:

1. Log in with your Banner ID
2. Click on “Student and Financial Aid”
3. Click on “Student Records”
4. Click on “Final Grades” and select the appropriate term

Description of Grades

There are two categories of grades that can be recorded on a student’s transcript. Academic grades (t)0.7 8(c)4.3 (g)4.2 (

GRADE POINT AVERAGE (GPA) CHART		
A = 4.000	B =3.000	C = 2.000
A- = 3.667	B- = 2.667	F, G = 0
B+ = 3.333	C+ = 2.333	

When the numerical value is multiplied by the credit value of a course, the resulting figure is the number of quality points. The student's average is computed by dividing the number of quality points earned by the total number of credits completed with a grade of A through G. The average is truncated to the third decimal place.

Appeal of Final Grade

SATISFACTORY PROGRESS POLICIES

Good Academic Standing

All students must maintain a minimum grade point average of 3.0 per semester and cumulatively and must make satisfactory progress toward a degree within the time frames detailed in the “Time Limitations” provision. All students must meet these standards of good academic standing and satisfactory academic progress. Students not meeting these standards may be placed on academic probation and may become ineligible for fina 2 batlviatde

A student placed on involuntary leave must remain off campus for the duration of their leave. A student on involuntary leave may not visit the campus or any other facility owned by the University without written approval from a University official.

The School will notify all relevant parties of the leave of absence and/or removal from campus.

A student's continuance on the rolls of the University; the receipt of academic credits, honors, and;awards graduation; and the conferring of any degree, diploma, or certificate upon a student are entirely subject to the disciplinary powers of the University and to the student maintair lr7 (a)2sin (r)4.6 (..1 (i)5.1 (nt)2.7 (he)9(e)9)8.8 (a)2.1 (i)5.1 (t)2.7 (he)9i o9 (n)]TJ ET 1 s(c)tivia oJ ET 1 (ni)αtif"nd t (e)9 (di)5.1 7 (i)5.17 (i)5.12.7 (he)9 (c)6(nt)2"ipl1 (J ET61 scn

appeal to the committee. The committee will review all documentation and testimony and will notify the Program Director and the student of their decision to grant or deny an appeal or recommendation on disciplinary action on the issue.

4. Review by Dean: Should the CASI not be able to resolve the student's issue, or the student wishes to appeal a decision by CASI, the student must submit a written request (within 30 days of the decision) that the Dean review the action, clearly stating the reasons for such a review. The Dean may grant or deny the request. If the Dean grants the request, he/she will evaluate all the available materials as to the facts and circumstances, including any recommendation from the CASI, and may request a personal interview with the student. The Dean's decision shall be final as to whether to review the determination, and, if so, whether to adhere to the committee's recommendation.

STUDENT LIFE AND RESOURCES

Student Services

Katz School Student Services helps students navigate where to go and whom to talk to. Students can schedule an appointment with the Student Services Coordinator by emailing katzstudentservices@yu.edu or calling 646-592-4718. Drop-in office hours are updated each semester to accommodate students' class schedules.

Academic Advisement

Every semester, students are expected to meet with an assigned faculty adviser or faculty research coordinator to its documentation guidelines and contact information: https://www.yu.edu/student-life/resources-and-services/disability-services/students.

English for Graduate School and Work

To assist non-native English speakers, the Katz Schooh aassdA (i)5.1 (o.8 (d.1 (i)51.81 (dAi.1 r6a 0 Td [n 03.6 (s)10.5 (s)-3

Every fall, Student Services host a new Graduate Student Orientation prior to the start of classes. Orientation is structured to help students find their way around campus, finish up registration and paperwork, access services, and meet with faculty. In addition, students will be invited to attend meetups where they can connect with new classmates and current graduate students in many different departments.

engage in research activities that further the University's mission and contribute to scientific literature, professional practice, and the graduate student's own education. Assistantships can be in the form of stipends, scholarships and fellowships, and regular on-campus employment. Students must remain in good academic standing in order participate in an assistantship.

Scholarships

*Elective Courses:

- Applied Biologics
- Survey of Life Sciences
- Biostatistics and Informatics
- Clinical Trials and Research Management
- Finance for Startups and Entrepreneurial Ventures
- MarketingManagement
- Project Management
- Technology Entrepreneurship
- Internship
- Special Topics
- Independent Study

BTM6999 Independent Study in Biotechnology Management and Entrepreneurship

This independent study course provides the student with the flexibility to learn more about a topic of interest outside of the formal course setting. The subject should be chosen in consultation with a faculty advisor who acts as the student's supervisor, and with the permission of the program director. The student is required to submit a

Course Descriptions

CYB 5000

cross-cultural crisis communications functions. Students will also review the many crisis communication management tools in use today, including emergency notification systems (ENS), as well as other international standards and crisis management plans.

ERM 6000 Emergency Management & Disaster Recovery

This course examines Organizational Emergency Management & Systems Disaster Recovery, with an emphasis on the importance to an organization of having an emergency management & global IT disaster recovery plan. Major topics include planning for crises, developing levels of preparation, identifying factors that need to be managed, forecasting potential crisis situations, and examining key elements of an emergency management & IT disaster recovery plan.

ERM 6050 Cybersecurity and CyberTerrorism

This Cybersecurity and CyberTerrorism fundamentals course will introduce students to the principles of data and technology that frame and define cybersecurity. Students will gain insight into the importance of cybersecurity and the integral role of cybersecurity professionals. Students will explore foundational cybersecurity principles, security architecture, risk management, attacks, incidents, and emerging IT and IS technologies.

CYB 7992: E-Discovery, Digital Evidence & Computer Forensics

Electronic discovery has become a critical component of all major litigations as the key evidence increasingly consists of e-mail and electronic documents. This course will teach you the law of e-discovery, practical best practices provide exposure to the technology behind it all. The focus will be on making you competent as to the legal obligations of
e-discovery.

MAN 5580 Project Management

This course teaches project management using several tools from the leading methodologies for managing software projects. The most effective project managers will combine methods to create a "right-sized" methodology appropriate to the organizational culture and project team members' background and experience.

CYB XXXX

MS in Data Analytics and Visualization

Yeshiva's Master’s in Data Analytics and Visualization focuses on data management and “wrangling,” data modeling and algorithm development, data interpretation, and data reporting. This is critical to learning the core to Data Science. The MS in Data Analytics and Visualization is ideal for highly motivated individuals who want to build the quantitative, design, and business skills needed to advance to leadership positions as business data analysts.

Program Director and Faculty

Our faculty are successful practice leads and technical leads on data analysis, data science, and business design teams at both top-tier organizations and high-growth start-ups. They share a passion for working with data to make their organizations and customers more successful, and a commitment to helping prepare the next

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Course Descriptions

DAV 5000 Business Modeling and Data Analysis

While data analysts need to be competent with a variety of tools, they will most often work with stakeholders who only use spreadsheets. Therefore, deep and broad skills working with spreadsheets and fluency in moving data between spreadsheets, business intelligence applications, and relational databases are critical for data analysts to be effective and credible. In this project-based course, students will build and apply key spreadsheet skills in the service of organizational data management, modeling, and analysis.

DAV 5100 Structured Data Management

Organizations require reports and analyses that are both accurate and useful. This course emphasizes the skills that database developers rely on to 1) translate organizational requirements into information architectures, 2) create operational and reporting databases, 3) manage data sources, 4) perform data integration into reporting databases, and 5) create ad-hoc analytics reports using business intelligence reporting tools. Students will gain both essential theory and hands-on practice, enabling them to build the database systems, supporting data workflows, and reporting architectures required to produce accurate and useful information in support of organizational decisions.

DAV 5200 Visual Design and Storytelling

Analysts must present their data in effective and compelling visualizations. This course combines the best heuristics for data presentation with hands-on experience in creating spreadsheet charts and data visualizations from a variety of source data. Students will learn how to combine text and visualizations to craft stories that promote deeper engagement with data analyses and conclusions.

DAV5300 Computational Math and Statistics

Deeper math literacy and computational thinking are essential for deeper data literacy. Probability, statistics, and mathematics—especially fundamental linear algebra—are critical to the success of data analysts as they implement increasingly complex solutions. This course is designed to give the non-mathematician practice using mathematical and statistical computational methods in the service of data analytic solutions.

MAN 5580 Project Management

Most data analysis and visualization work is project-based, and successful data analysts are effective at managing projects and collaborating as members of project teams. This course teaches project management using several tools from the leading methodologies for managing software projects. The most effective project managers will combine methods to create a “right-sized” methodology appropriate to the organizational culture and project team members’ background and experience.

DAV 5400 Analytics Programming

Code-based solutions can be richer, more accurate, and more flexible than those that rely on off-the-shelf software and analytic packages. This course teaches the programming skills that data analysts need to prepare structured and unstructured data for downstream analysis. Students will learn to use high-level programming languages to create rich data analysis workflows.

DAV 6500 Capstone

In this course, students will integrate the skills developed in the previous classes into a comprehensive body of knowledge and will provide tangible evidence of analytic and visualization competencies. The capstone will include four components: 1) a brief proposal and project schedul course, students will learn the key processes, measures, and tools that enable data-driven workforce analysis to deliver competitive organizational advantage.

DAV 6050 Data Driven Organizations

course contract describing the course of study and its specific learning objectives. Course credit is determined in advance of the course, by the instructor with the approval of the program director.

Admissions Requirements

Successful candidates must exhibit the potential to excel in this demanding field upon graduation and meet the following qualifications:

Bachelor’s degree from an accredited college or university

Minimum undergraduate GPA of 3.0

Completion of at least one calculus course, one statistics course, and one programming course, each with

MS in Digital Marketing and Media

To prepare students for careers in these industries, the program draws from media and design, communications, social science, and information systems fields. Students will complete a project

Course Descriptions

MAR 5100 Communications
Our method is tool-based and across the semester we will introduce and workshop six flexible and replicable tools to support a more radically human business communications and marketing. The tools will be workshopped within the context of our lectures and readings, and supported by cases. We will include five new marketing clinics as topic area deep-dives: 1. Integrated search / content marketing, 2. Real social, 3. CRM/1st party data, 4. Experience-planning workshop and 5. Multi-touch attribution modelling.

The approach is decidedly learn-by-doing, with the group project and its three presentations being the vehicle for students to embrace and demonstrate their newfound capability for leveraging these tools, models and strategies in the service of creating their go-to-market campaign plan for their business – the semester-long group exercise and final deliverable.

MAR 5507 Consumer Behavior and Customer Relationship Management
Customer Relationship Management (CRM) has changed the conversation in consumer-focused marketing, and companies are successful when they use CRM to optimize the identification, acquisition, growth, and retention of desired customers. This course provides students with a practical understanding of the issues that affect B2C and B2B relationships, including the psychological, social and cultural drivers influencer of consumer behavior. Students master best practices for successful CRM including a company's response to consumer preferences, funnel management, messaging and sales activities, CRM systems and effective data management and application across the organization.

MAR 5815 Marketing Management and Strategy
This course provides Marketing students with a solid foundation in modern marketing from a strategic, general management perspective. The concepts and techniques presented in the class address issues such as customer insights, competitive analysis, market segmentation, positioning strategy and marketing decisions that managers

MAR 5901 Independent Study
This independent study course provides the student with the flexibility to learn more about a topic of interest outside the formal course setting. The subject should be chosen in consultation with a faculty advisor who acts as the student's supervisor, and with the permission of the program director. The student is required to submit a course contract describing the course of study and its specific learning objectives. Course credit is determined in advance of the course, by the instructor with the approval of the program director.

MAR 5900 Internship
This course consists of an off-

MA in Mathematics

The MA in Math at the Katz School provides the flexibility to customize your curriculum. In addition to traditional coursework, you may also enroll in special topics or design an independent study under the mentorship of senior faculty. You may also choose to focus on financial mathematics and take courses in the departments of Mathematical Sciences, Economics, Physics, and Computer Science.

Masters in Mathematics students are requ325F2lA (m)8.8 (e)9 ((he)9 ((he) (he)9 ((he) (he)9)4 (n a)2.1 (d)Tj ET EM2.7 (

- Applied Mathematics
- Methods of Mathematical Physics

See course descriptions under PhD in Mathematics*

Admission Requirements

Admission to the Master of Arts Program in Mathematics at Yeshiva University is competitive, and the following requirements are necessary rather than sufficient conditions for admission.

1. A bachelor's degree from an accredited institution
2. A major in mathematics, statistics, computer science or one of the physical or engineering sciences. In exceptional cases, applicants holding a major in a biological science, economics or finance may be considered. All applicants, regardless of major or other qualifications, must have completed courses in Multivariable Calculus and Linear Algebra at the time of application.
3. A B average (GPA of 3.0/4.0) in science and mathematics courses.
4. Three letters of recommendation.
5. GRE scores.
6. TOEFL scores for graduates of non-English-speaking colleges or universities, as described below. This requirement may be waived by the Department of Mathematical Sciences if the applicant presents evidence that his or her native language is English.

Deadlines: The Master of Arts Program in Mathematics currently operates on a rolling admission schedule, in which admissions are processed, as they are received, for the next available starting date. Applicants may begin the program in either the spring or fall semesters.

Program Requirements:

Credit Requirement: 30 credits.

Residence Requirement: A minimum of 24 of the 30 credits must be taken at the School. Exceptions must be approved by the director of graduate studies.

PhD in Mathematics

We also offer a doctoral program in math. The program emphasizes individual study in one or more areas of research pursued by department faculty, including fluid dynamics and shock waves; geometric analysis; optimization; complexity theory; partial differential equations of elliptic, hyperbolic and mixed type; the theory of risk; mathematical, theoretical and computational physics; universal algebras; operator theory; and the theory of plasma waves.

Applicants without master's degrees can be admitted to the direct doctorate in math and earn an MA in Mathematics along the way to the PhD. Those applicants must meet admissions requirements for both the MA and PhD programs.

Degree programs are formulated by students in consultation with an adviser and must receive departmental approval. It is expected that students will have multivariable calculus and linear algebra as prerequisite for graduate standing. Upon admission, each student must consult with the director of graduate studies before

Course

MA in Physics

[redacted] students build strong credentials for applying to top PhD programs in physics and engineering, and to increase the chances of securing full financial support in those programs.

MS in Quantitative Economics

Yeshiva University's MS in Quantitative Economics (MQE) degree is a 12-month STEM program in which you will master micro, macro, and financial economics. In addition, you will be trained in statistical and computational aspects of economics, with applications to fields such as labor economics, public finance, monetary policy, financial economics and market design.

Specialization in MS in Quantitative Economics: Quantitative Finance

Yeshiva University's Specialization in Quantitative Finance is your opportunity to dive headfirst into the world of quantitative finance, mathematical modeling, financial econometrics, and data science. What sets Yeshiva's Specialization in Quantitative Finance apart from traditional quantitative finance degrees is its home in the MS in Quantitative Economics (MQE). As a student in both programs, you'll graduate with a solid grounding in the theoretical and practical economic foundations that shape global economies and markets.

Program Director and Faculty

Faculty in the quantitative economics program are research-active and work on issues spanning macro and micro economics, at both the theoretical and empirical levels. Our faculty publish work in prestigious international scientific journals, such as , , , , and . They also participate in study groups and co-organize conferences sponsored by the NBER, the Cowles Foundation, and other institutions of international renown.

- Dr. Ran Shao – Director and Associate Professor, MS in Quantitative Economics Program
- Dr. Gaetano Bloise, Professor of Economics, MS in Quantitative Economics Program
- Dr. Kun Ho Kim, Assistant Professor of Economics, MS in Quantitative Economics Program

Curriculum and Degree Requirements

The MS in Quantitative Economics is an intensive 30-credit, 12-month, full-time program covering both the theory and practice of quantitative economics. You will receive rigorous training in micro and macroeconomics, financial economics, and statistical and computational aspects of the field. You may pursue either the General or the Quantitative Finance tracks.

We keep classes small to foster personal interaction between and among faculty and students and to give you hands-on experience with our department's latest and most cutting-edge research.

Econometrics classes are complemented with hands-on lab sessions. All students will take an independent study designed in collaboration with their faculty advisor.

The Specialization in Quantitative Finance is part of the STEM-approved MS in Quantitative Economics. You'll earn the master's degree and the specialization in just one year under the guidance of senior researcher faculty and accomplished professionals. Courses include problem sets and projects and are all grounded in both theory and practice. Faculty coordinate across classes so that you have an integrated experience throughout the program.

Sample Course Sequence

YEAR 1 - FALL	YEAR 1 - SPRING	YEAR 1 - SUMMER
Mathematics for Economists (3 credits) Mathematical Statistics (3 credits) Macroeconomics I (3 credits) Microeconomics I (3 credits)	Econometrics (3 credits) Macroeconomics II (3 credits) Microeconomics II (3 credits) Elective 1 (3 credits) * Elective 2 (3 credits) *	Summer 1 Independent Study (3 credits) **

Sample Course Sequence: Quantitative Finance Track

YEAR 1 - FALL	YEAR 1 - SPRING	YEAR 1 - SUMMER

Probability and Statistics (3 credits)
Mathematical Methods (3 credits)
Econometrics (3 credits)
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Course Descriptions

ECON 5101 Microeconomics I

This is the first course in the microeconomics sequence for the Master's in Quantitative Economics. The purpose of this course is to build a solid background in microeconomic theory. This will be done by giving you the core

ECON 5115 Market Design
This course introduces basic results in market design, a subfield of microeconomic theory where researchers propose desirable and often practical solutions to allocation problems in reality. Due to such a practical nature of this topic, students should become able to propose appropriate solutions by themselves to various allocation problems.

ECON 5201 Mathematics for Economists
This course covers some basic mathematical techniques for economists. It focuses on the theory and applications of optimization in both static and dynamic settings. It also introduces fixed point theorems that are fundamental for general equilibrium analysis and game theory models with multiple decision makers.

ECON 5202 Mathematical Statistics
This course is the first of a two-semester graduate level study of the theory and practice of econometrics. The course assumes a working knowledge of concepts of calculus, linear algebra and some introductory probability and statistics. The objective is to work through the fundamentals of theoretical statistics.

ECON 5205 Quantitative Macroeconomics
This course aims to introduce modern quantitative methods in macroeconomics. The class will consist of two parts:

predictive, and prescriptive analytic techniques for analytical financial modeling. Throughout this project-based course, there will be an emphasis on asking good guiding questions and effectively communicating results through text, tables, and visualizations.

MS in Speech-Language Pathology

Yeshiva University's MS in Speech-Language Pathology is one of the few programs in the country specializing in medical speech-pathology. The master's program focuses on neuromotor communication and swallowing disorders as well as multidisciplinary approaches to diagnosing and managing speech and language cases. The Katz School provides graduate students with a strong academic and clinical foundation for the holistic treatment of communication disorders in children, adolescents, and adults. Through clinical externships and an individualized capstone project, students have numerous opportunities to gain practical, hands-on experience under the guidance of experienced faculty mentors. Students will benefit from diverse clinical externship opportunities in a range of settings including, medical institutions, early intervention centers, schools, interdisciplinary and private practices.

Requirements for Professional Practice

The MS in Speech-Language Pathology seeks to develop professionals who are knowledgeable, skilled and ethical in the assessment, diagnosis and treatment of communication disorders, and who are knowledgeable of the state and national requirements for documentation of services rendered. Successful completion of the program prepares you to meet the academic and clinical requirements to apply for certification from the American Speech-Language-Hearing Association (ASHA) and licensure in the State of New York. The following guidelines pertain to national and state licensure:

- New York State Guidelines
- National Guidelines
- Requirements for Ethical Practice as a Speech-Language Pathologist
- Essential Functions

Candidacy for Accreditation: The Master's (M.S.) program in Speech-Language Pathology (SLP) at Yeshiva University is a Candidate for Accreditation (August 1, 2016-July 30, 2021) by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (CAA) of the American Speech-Language-Hearing Association, 2200 Research Boulevard #310, Rockville, Maryland 20850, 800-498-2071 or 301-296-5700. This is a "pre-accreditation" status with the CAA, awarded to developing or merging programs for a maximum period of five years. Award of

Course Descriptions

CSD 5000 Introduction to Speech-Language Pathology
Course focuses on development of treatment plans, establishment of evidence-based treatment objectives, tracking of treatment efficacy, record keeping, ethical professional behavior, and problem solving in a clinical setting.

CSD5100 Professional Issues/Topics in SLP: Level 1
The first level of the Professional Issues/Topics in SLP addresses the issues facing the graduate clinician in their practicum sites, as they embark on evaluation and remediation of disorders affecting communication. Skills needed for rehabilitation settings, populations, and age of the client will be addressed, as well as interaction with the health care team. Professional and ethical responsibilities will be a central focus of the course.

CSD 5110 Professional Issues/Topics in SLP: Level 2
The second level of the Professional Issues/Topics in SLP focuses on case management, research principles in clinical practice, use of evidence-based practice, counseling and updates on new healthcare regulation. CSD5110 will include guest speakers to inform the graduate clinician on specific aspects the SLP faces across work settings and across disorders.

CSD 5120 Professional Issues/Topics in SLP: Level 3
The third level of the Professional Issues/topics in SLP focuses on licensure, coding and billing for services, advocacy for coverage and payment, healthcare regulations/reform affecting our profession, professionalism, ethical conduct, credentialing, and contemporary professional issues.

CSD 5200 Externship: Level 1
This full-time course establishes the fountain of clinical and professional skills necessary for students to participate in off campus clinical community based initiatives and other clinical opportunities as determined by Clinical Director. Students are assigned their first field-based experience at the graduate level from a variety of YU on campus and YU affiliated clinical settings. Must also enroll in CSD5201.

CSD 5210 Externship: Level 2
Full-time or part-time clinical practicum experience at a medical setting, school, group practice, private practice, or non-profit organization -0.9 (o)-4.1 (n)-6.1 (-0.9 (o)-4.1 (n)-6.1 (k52n)-6.2 (i)-0.9 41 (i)-0.9 o)-4.2 (2 k52n)-6.2 (i)-3i[(p)-6 (n
Full-time or part-time clinical practicum experience at a medical set -0 0 11.04 358.08 360.12 Tm (

This course examines the impact of syndromes, genetic defects, and trauma in the success of communication, with specific attention to speech production. Case analyses, etiologic factors, and review of pertinent research for orofacial anomalies, including cleft palate, are included.

impairment from brain injury will be covered, as well as transdisciplinary approaches to cognitive disorders. Current issues in the field related to management of associated communication disorders as well as the importance of research in the field of cognitive disorders are discussed.

CSD 6440 Augmentative and Alternative Communication
This course reviews the history and theory of non-speech communication, diagnosis, intervention, and current research; survey of issues pertinent to the use of unaided and aided augmentative and alternative communication, as well as advocacy for those patients. Case analyses, etiologic factors, and review of pertinent research are included. This course offers a detailed investigation of varied populations, implementation of high-tech, low-tech and no-tech solutions, partner training and development of measurable goals.

CSD 6500 Audiology for SLP and CSD 6501 Lab
This course examines the bioacoustics of human communication and hearing including neuroanatomy, anatomy/physiology of the auditory systems, pathology of the auditory systems, acoustic behavior, psychophysical procedures, auditory dysfunction, anatomical and physiological studies associated with different categories of cochlear insult and central auditory nervous system function. Hearing tests and testing instruments, case finding and referral, interpretation of hearing test results, and organization of hearing conservation programs. Course requires CSD6501.

CSD 6510 Speech/Language Intervention for Hearing Impaired
Course examines the theory and clinical intervention for patients with hearing loss and a speech/language deficit. The impact of hearing disorders on communication is examined, including attention to receptive errors, speech/voice quality, and modification of treatment goals to account for underlying hearing deficit. The role of the SLP as a member of the cochlear implant team and/or deaf education is addressed. Case analyses, etiologic factors, and review of pertinent research are included.

CSD 6600 Research Methods and Critical Assessment of the Literature
This course focuses on application of design and analysis of research in Speech-Language pathology, and includes sample peer reviews as well as critique of recent research articles. Review of granting agencies, funding sources,

Admissions Requirements

Successful candidates to the MS in Speech-Language Pathology must have:

- A bachelor's degree from an accredited college or university
- Official transcripts from all colleges and universities attended
- Official GRE scores for verbal, quantitative, and writing
- Resume
- Personal statement demonstrating a commitment to contribute to and complete the program
- Two recommendation letters
- Non-native English speakers must pass the TOEFL (program code 7619) with a minimum score of 550 (or 100 on the computer-based test). Additional accent reduction or ESL instruction may be required.

Prerequisite coursework:
Applicants must show proof of satisfactory completion of all prerequisite coursework. Prerequisites may be fulfilled with courses taken at the graduate or undergraduate levels.

Pre-Requisites that need to be completed with a grade B or higher by August 1, 2020:

- Speech Science
- Hearing Science
- Phonetics
- Statistics
- Introduction to Speech-Language Pathology - courses that would be accepted are below
- Chemistry or Physics
- Biology
- Social or Behavioral Science

Any grade below a B must be retaken for official acceptance.

Hearing Science

- Speech and Hearing Science (can be counted as a Hearing Science, but not a Hearing Science AND Speech Science)
- Auditory Rehabilitation
- Speech-Language and Hearing Science: Anatomy and Physiology
- Audiology
- Aural Rehabilitation
- The Hearing Mechanism

Speech Science

- Speech-Language and Hearing Science: Acoustics
- Speech and Hearing Science (can be counted as a Speech Science, but not a Hearing Science AND Speech Science)
- Introduction to Hearing Sciences and Acoustics
- Introduction to Speech Science
- Introduction to Acoustic Phonetics

Introduction to Speech-Language Pathology/Communication Science Disorders
Survey of Speech, Language, and Hearing Disorders

- Speech Pathology: Functional Disorders
- Speech Pathology I: Communication Disorders
- Intro to Communication Disorders
- Survey of Communication Disorders
- Nature of Speech-Language Disorders