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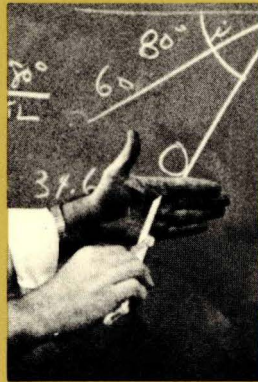
Summer 6-1973

Course Catalog, Summer 1973

Kean College of New Jersey

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Newark State College at Union Summer 1973



Newark State College at Union is pleased to publish its 38th summer schedule; close to four hundred courses and workshops in the arts and sciences, technologies and interdisciplinary studies for graduate and undergraduate men and women.

This summer, as in the past, the College expects to serve some 8,000 students at its Union campus and at off-campus centers in Boonton Township and Neptune, New Jersey.

The Union campus is an ideal summer setting — 120 acres of woodland and broad lawns, with swimming pool, tennis courts and other recreational facilities.

And the location of the campus is excellent. Its proximity to the metropolitan area and access to major networks of transportation make continuous cultural and intellectual interchange between the cities and the College possible.

Parking for visitors and for commuting faculty and students is provided.

For all information on Summer 1973 contact:
Office of Summer Session and Special Programs
Newark State College at Union
Union, New Jersey 07083
Telephone (201) 527-2163



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Many of the workshops and institutes which follow are offered for both graduate and undergraduate credit: 5000 indicates graduate level. 1000 through 4000 indicates undergraduate level.

Please check all listings for dates, times and special registration information.

College residence may be available during the Post-Summer Session, August 6-17, only. Those interested are advised to contact the workshop coordinator.

Intersession

9251/I.D. 5600 Opera Workshop (4) Brown, Popper
9501/I.D. 4940 Opera Workshop (4)
May 14 — June 14/5:00 — 8:30 p.m.

Study and coaching of opera roles in original language and in English, culminating in a performance of opera scenes, excerpts of short works. Daily coaching and rehearsals and one private voice lesson every week. Written application should be received prior to May 1; should include music biography and background, repertory of operatic arias and entire roles. Suggest first year applicants enclose sample tape.

Prerequisite: singers — previous voice study; piano accompanists — keyboard and sightreading proficiency.

For information, application and registration for this workshop, contact:
Department of Music, 527-2108

9252/I.D. 5600 Guitar Workshop (3) Varner
9502/Mus. 4939 Guitar Workshop (3)
May 21 — June 14/5:00 — 7:30 p.m.

Principles and practice of using guitar in elementary and secondary schools. Workshop is for students wishing to learn basic classical guitar technique. Students must own or rent a nylon string guitar. Open to all students. Enrollment limited to 25.

9253 I.D. 5600 Workshop: Electronic Circuit Analysis Program (3) Jahn
May 21-June 14/Monday through Thursday 5:00-7:30 p.m.

This is an inservice workshop designed for secondary technical, industrial or vocational education instructors who desire experience in the use of prewritten ECAP computer program for the solution of electronic circuits. Enrollment limited to twenty.

For registration information contact:

Mr. Clifford Jahn

Department of Industrial Studies (201) 527-2317

Summer Session

0276 Sp. Ed. 5130 Institute for Teachers of Trainable Mentally Retarded (3) Bilowit
and **Sp. Ed. 5100 or 5115 (3) to be assigned**

June 25 — August 3

This institute will cover the latest educational and psychological techniques of working with the mentally retarded. Rationale for programs and curriculum will be established and the practical application of these principles will be worked directly with the residents of the Woodbridge State School at the Woodbridge School.

Prerequisites: Bachelor's degree plus course, Introduction to Education of the Handicapped and permission of instructor.

Applications must be received prior to June 1, 1973. For application write:

Dr. David Bilowit

Child Study Center

0251/I.D. 5600 Workshop: World of Construction (3) Danilow
June 25 — August 3/6:00 — 9:40 p.m.

In this study of a comprehensive and innovative one-year junior high school course in construction technology, three major sections are covered: an analysis of the managed-personnel-production system of construction, a synthesis of housing construction practices and a synthesis of city and regional planning practices.

0254/I.D. 5600 Workshop in Theatre Arts (6) Frey, Harper
0703/Eng. 2615 Workshop in Theatre Arts (6)
June 25 — August 3/8:30 a.m. — 12:30 p.m.

A course in theatrical production: costume, scenic design, lighting, acting and directing. Includes lectures and formal classes aimed at developing traditional and experimental techniques in the several theatre arts. Advanced work required for graduate credit. Practical workshop experience reinforced by field trips. Limited to 30 students.

0275/I.D. 5600 Workshop in Astronomy for Teachers (4) Zimmerman
0725/E.S. 1100 Cosmic Environments (4)
June 25 — August 3/M.W.R.F. 11:00 a.m. — 12:30 p.m.; T. 7:30 — 10:30 p.m.

A study of heavenly bodies, solar systems and the sidereal universe, with emphasis on the nature of astronomical investigation. Advanced work required for graduate credit. To be held at the Sperry Observatory, Union College, Cranford.

Field Course in Archeology

July 2 — August 10

Offered in cooperation with Seton Hall University. Student group will dig; live in tents along Delaware River July 2 — August 10. Apply to Dr. Herbert C. Kraft, Professor of Anthropology, Seton Hall University, South Orange, New Jersey 07079. Undergraduate fee \$200.00 including tuition but no food. Graduate credit may be arranged.

0252 I.D. 5600 Suzuki String Clinic (2) William Starr
0701 Mus. 4991 Suzuki String Clinic (2)
July 9 — 13/12:30 — 5:30 p.m.

Study of Suzuki philosophy and methodology in teaching of stringed instruments. Guest lecturer; William Starr, President, Suzuki Talent Institute.

0253 I.D. 5600 Suzuki Piano Clinic (2) Constance Starr
0702 Mus. 4992 Suzuki Piano Clinic (2)
July 9 — 13/12:30 — 5:30 p.m.

Study of Suzuki philosophy and methodology in teaching piano.



Post-Summer Session

0951/I.D. 5600 Graduate Seminar in Children's Literature (3) Carmichael

August 6 — 17/9:30 a.m. — 4:00 p.m.

The Graduate Seminar in Children's Literature deals with the 'NOW' generation, pre-school to high school. It is a two-week program of workshops and discussions, providing excellent opportunity for personal contact with experts in all aspects of the field of children's literature. The seminar will have particular value for teachers, librarians, educational administrators, curriculum specialists and parents.

Prerequisites: an undergraduate degree and a minimum of one course in children's literature.

Tuition: \$150 includes \$10 registration fee

For application and information contact:

Dr. Carolyn W. Carmichael

Department of Communication Sciences (201) 527-2070

0952/I.D. 5600 Graduate Seminar: Reading in Content Areas Theory into Practice (3) Leeds

August 6 — 17/9:00 a.m. — 4:00 p.m.

This two week program of workshops and discussions will provide an opportunity for seminar registrants to examine, create and develop material applicable to various content areas. Students will have an opportunity to make personal contact with well-known authorities in various aspects of content reading.

For application and information contact:

Dr. Donald Leeds

Department of Communication Sciences (201) 527-2070

Music Education Institute

August 6 — 16

Written application should be received prior to the first meeting of the institute: For information, application and registration contact:

Department of Music (201) 527-2107

0953/I.D. 5600 Kodaly Music Workshop (3) Daniel, Klingaman, Lewis

0975/Mus. 4970 Kodaly Music Workshop (3)

Study of Kodaly method, philosophy and methodology in music teaching.

0954/I.D. 5600 Orff Music Workshop (3)

0976/Mus. 4980 Orff Music Workshop (3)

Study of Orff approach to music teaching. Guest lecturers: Isabell Carley, Tossi Aaron

0955/I.D. 5600 General Music Workshop (3)

0977/Mus. 4990 General Music Workshop (3)

Study of current and successful methods of classroom music presentation in middle grades. Consultants: Dr. Simon Anderson, Dr. Sally Monsour

Graduate Courses at Union

GRADUATE COURSES AT UNION
INTERSESSION MAY 21—JUNE 14

Courses meet every evening, Monday through Thursday. Please check the class time in each course listing. The course listing reads as follows:

Course no. (old no. 000.00) Title (sem. hrs.)

Description of course

Prerequisite:

ref. no./instructor/time

Communication Sciences

C.S. 5600 (511.80) Remediation in Basic Skills (3)

Designed to increase the effectiveness in the teaching of basic skills to children requiring remedial assistance. Emphasis on informal diagnosis, followed by remediation of the various skills.

9101/Walter/5:00—7:30 p.m.

9102/Leads/7:40—10:10 p.m.

Early Childhood Education

E.C. 5220 (520.20) Building Readiness for Learning in the Primary Grades (3)

Curricular problems related to readiness for learning and possible solutions: recognizing and evaluating the readiness of children; promoting understandings, skills and attitudes in the language arts, numerical communication, social and natural sciences and aesthetic experiences. Emphasis on the teacher as change agent in the classroom.

9103/Gaines/5:00—7:30 p.m.

E.C. 5250 (520.50) Science Experience for Teachers of Young Children (3)

Understanding the child as an explorer of his limited but expanding environment. Emphasis on the design and presentation of first hand learning experiences in science for the pre-school and primary child.

9104/E. Richardson/5:00—7:30 p.m.

Educational Policy Sciences

E.P.S. 5000 (500.01) Foundations of Graduate Study in Education (3)

Required of all beginning graduate students. An interdisciplinary approach to the study of education in contemporary society. Basic readings selected from the various disciplines used to gain insight into selected problems involving relationships of the human being with educational institutions and contemporary society.

9105/Erturk/5:00—7:30 p.m.

E.P.S. 5110 (501.10) Organization and Administration of Public Schools (3)

Problems of organization and administration of today's public schools. Modern leadership techniques explored and applied to the administration of schools at all levels in all socio-economic environments.

9106/Pierson/5:00—7:30 p.m.

Graduate Service Program

I.D. 5600 Conservation of Natural Resources (3)

A study of relationships among natural resources, technological development, population growth and levels of living as a means of exploring and evaluating the foundations of environmental management and conservation.

9107/M. Kelland/5:00—7:30 p.m.

9108/F. Kelland/5:00—7:30 p.m.

Political Science

Pol. Sci. 5085 (583.85) The Contemporary Metropolitan Community (3)

A study of the government and politics of metropolitan areas with emphasis upon their unique problems and proposed solutions.

9109/Rubin/7:40—10:10 p.m.

Psy. 5620 (573.90) Laboratory Training in Human Relations I (3)

Experience in small groups designed to: contribute to the student's understanding of himself and his impact on others; increase his understanding of the dynamics of interpersonal interaction in small groups; increase his sensitivity to the feelings and behavior of others in groups; increase his understanding of how large organizations prevent, create or resolve human relations problems.

9110/Zito/5:00—7:30 p.m.

9111/5:00—7:30 p.m.

Sp. Ed. 5115 (541.15) Materials, Programs and Methods for Teaching the Mentally Retarded (3)

The nature and needs of the mentally retarded and the goals of the curriculum for such children applied to classroom procedures and practices. Classroom management, record keeping and the role of academics in such a program. Development and utilization of suitable curriculum materials. Students required to observe and participate in programs for the education of the mentally retarded.

9112/Frankel/5:00—7:30 p.m.

S.P.S. 5910 (544.10) Introduction to Student Personnel Services (3)

History and development of student personnel services with emphasis on guidance, counseling and school social work. The philosophy of guidance and social work, the methods used. The relationships of the workers with students, parents, other school personnel and the community as they work together toward the goals of education.

9113/Ward/5:00—7:30 p.m.

Psychology

Special Education

Student Personnel Services

GRADUATE COURSES AT UNION
SUMMER SESSION JUNE 25—AUGUST 3

Unless otherwise noted, daytime courses meet each day, Monday through Friday.

†Indicates courses which run for the first three weeks of summer session only, June 25—July 13.

‡Indicates courses which run the second three weeks of summer session, July 16—August 3.

*Indicates evening courses which meet Monday, Tuesday and Thursday.

Please check all course listings for class time and for special information. The course listing reads as follows:

Course no. (old no. 000.00) Title (sem. hrs.)

Description of course

Prerequisite:

ref. no./instructor/time

Communication Sciences

C.S. 5410 (546.10) Developmental Techniques in the Teaching of Reading (3)

A study of the nature of reading and of new and promising methods and materials of instruction. Emphasis on enlarging background experiences and vocabulary knowledge; building word analysis and perceptual techniques; meeting individual reading needs; studying reading difficulty, its prevention and remediation within the elementary classroom.

0101/Mazurkiewicz/8:30—9:50 a.m.

0102/Mazurkiewicz/10:00—11:20 a.m.

C.S. 5412 (546.45) Reading Disabilities (2)

A consideration of the neurological, physical, mental and emotional aspects of the child which may impede learning. Attention is focused on understanding and interpreting standardized tests and testing instruments, their validity and reliability, and on classroom diagnosis and remediation of specific reading disabilities.

0103/Walter/8:30—9:50 a.m.

C.S. 5415 (546.15) Clinical Practices in the Diagnosis and Correction of Reading Disabilities I (3)

A study of clinical practices in diagnosing failure in reading and in improving remedial instruction. Students administer, score and interpret various tests, compile case records and plan individual programs in reading.

Prerequisite: C.S. 5410

0104/Walter/10:00—11:20 a.m.

Educational Arts and Systems

E.A.S. 5100 (510.12) Advanced Elementary School Curriculum (3)

A brief history of the evolution of curriculum in the elementary school as background for the study of current factors which influence curriculum development. Educational theory, knowledge of child development and social and economic factors related to present curriculum practices. Influence of materials of instruction, community forces and group pressures. Principles and methods of planning educational programs developed. Methods of developing criteria explored.

†0106/Preil/11:30 a.m.—2:20 p.m.

E.A.S. 5131 (511.15) Seminar in Elementary Science (3)

Curriculum development, learning resources and promising proposals for the teaching of elementary science.

0107/E. Richardson/10:00—11:20 a.m.

E.A.S. 5132 (511.28) Seminar in Elementary Mathematics (3)

Curriculum development, learning resources and promising proposals for the teaching of mathematics.

†0108/Coulter/11:30 a.m.—2:20 p.m.

E.A.S. 5140 (511.50) Children's Literature (3)

A survey of traditional and modern stories, poems, plays and informational materials for children. Methods of helping children to use and enjoy literature.

0109/Salt/10:00—11:20 a.m.

E.A.S. 5500 (535.12) Principles and Programs of Secondary Education (3)

The purpose and nature of secondary curriculum considering societal, community, school and individual inputs. Includes theory necessary for the design, implementation and evaluation of instructional plans and practice in designing instructional modules.

Prerequisites and/or corequisites: Psy. 5120 and 5310.

0110/Parker/10:00—11:20 a.m.

E.A.S. 5800 (572.75) Evaluation and the Learning Process (3)

The natural relationship of measurement and evaluation in the school to instructional objectives which are stated behaviorally. Current techniques of measurement and evaluation including objective and subjective tests, attitudes, grades and other evidence will be critically examined through understanding of the broader notions of the measurement process. Working material and student activities will be oriented toward current thought and school practice.

0111/Parker/8:30—9:50 a.m.

E.P.S. 5000 (500.01) Foundations of Graduate Study in Education (3)

Required of all beginning graduate students. An interdisciplinary approach to the study of education in contemporary society. Basic readings selected from the various disciplines used to gain insight into selected problems involving relationships of the human being with educational institutions and contemporary society.

* 0115/Preil/5:45—7:50 p.m.

0116/Lorusso/8:30—9:50 a.m.

0117/Tehie/10:00—11:20 a.m.

0118/Erturk/11:30 a.m.—12:50 p.m.

E.P.S. 5030 (510.55) Seminar in International Education (3)

Exploration in depth of problems of education on the international scene. Attention directed toward ways and means of reducing illiteracy in various sections of the world, providing educational opportunities for all peoples and the reduction of international tensions through education.

0119/Erturk/10:00—11:20 a.m.

E.P.S. 5110 (501.10) Organization and Administration of Public Schools (3)

Problems of organization and administration of today's public schools. Modern leadership techniques explored and applied to the administration of schools at all levels, in all socio-economic environments.

0120/Muniz/10:00—11:20 a.m.

E.P.S. 5117 (501.17) Supervision of Instruction: Theory and Practice (3)

Overview of the development, purpose and organization of supervisory programs. Special emphasis on theory and practice of educational leadership as it applies to current in-service educational problems.

0121/Hancock/11:30 a.m.—12:50 p.m.

* 0122/McCarthy/5:45—7:50 p.m.

E.P.S. 5118 (501.18) Theory and Practice of Curriculum Development in the Public Schools (3)

Approaches and trends. The role and effect of various policy-making, administrative and supervisory personnel on curriculum innovation, change and evaluation.

0123/Sabo/10:00—11:20 a.m.

0124/Sabo/11:30 a.m.—12:50 p.m.

Educational Policy Sciences

E.P.S. 5130 (501.30) New Jersey School Law (3)

Familiarity with and appreciation of significance of organization, content and use of New Jersey Statutes Annotated: Title 18 — Education regarding the rules of the New Jersey Board of Education and the statutes of miscellaneous title related to education. Decisions interpreting the above. Knowledge and basic understanding of the relation of the statutes and rules to the practical operation of New Jersey schools and of those areas of law imperative to the intelligent discharge of daily duties of teaching and administration.

0125/Muniz/11:30 a.m. — 12:50 p.m.

E.P.S. 5135 (501.35) Public School Finance (3)

Challenge to the school administrator to achieve satisfactory educational goals without overstraining the economic resources of the community. Designed to provide both theory and practical experience in the fiscal management of public schools with particular emphasis on state and federal aid, budgeting, machine and computer accounting and safeguarding of funds.

0126/Hancock/8:30 — 9:50 a.m.

E.P.S. 5140 (572.70) Instructional Theory and Application (3)

Critical examination of theories of instruction, models and conceptual structures underlying present day practices in teaching in schools and other institutions in our society. Emphasis on keeping current practices congruent with current research and knowledge about teaching — learning relationships that help individuals realize their full human potential, physiologically, emotionally, intellectually and creatively. Meets requirements for secondary certification and Administration and Supervision.

0127/Lorusso/10:00 — 11:20 a.m.

Eng. 5100 (511.60) New Perspectives of Language Study (3)

An inductive approach to the study of the English language together with a brief account of the historical antecedents of present day linguistics. Emphasis given to analysis of important grammatical devices based on modern scientific study of language.

0130/Thomason/11:30 a.m. — 12:50 p.m.

Eng. 5200 (562.70) The Literature of the East (3)

Survey of ancient and modern writings from the Near and Far East with emphasis on the literature of the Hebrew, Egyptian, Babylonian, Arab, Persian, Indian, Chinese and Japanese cultures. Aesthetic, historic and religious crosscurrents of these civilizations. Intercultural relationships between East and West. The great variety of literary forms: myth, epic, drama, tale, gnomic proverb, poetry, short story and novel.

0131/Currier/11:30 a.m. — 12:50 p.m.

Eng. 5380 (562.15) Readings in Contemporary Literature (3)

Designed to enable the mature student to explore the literature of the present day with emphasis placed equally upon discussion of common readings and research in independently selected materials. Concentration on writing done since World War II with sufficient background provided in the history and development of both European and American literatures to afford a broad and rich perspective of contemporary belles lettres.

0132/Scotto/8:30 — 9:50 a.m.

Eng. 5520 (562.55) Contemporary Drama (3)

An historical and critical study of significant theatrical forms of the 20th century and of plays by the major modern dramatists. Innovations in acting and producing techniques of the cinema on the theatre arts.

0133/Dolkey/10:00 — 11:20 a.m.

Eng. 5540 (562.80) Poetry and the Poetic Experience (3)

The form and content of poetry from many periods and all continents considered both in terms of the creative processes and purposes of the author and in terms of the resultant structured aesthetic experience of his audience.

0134/Thomason/10:00 — 11:20 a.m.

F.A. 5010 (561.17) Interrelatedness of the Arts (3)

The similarities and differences existing between art forms, visual and non-visual, separated in epoch and geographical location. Also the relatedness of the many art forms growing out of the diverse stimulations of a single cultural setting.

0136/Howe/11:30 a.m. — 12:50 p.m.

F.A. 5210 (561.77) Photography (3)

Continuation of beginning experiences in photography — exposure, development, enlarging. Attention to specialized methods in print preparation, extreme close-up, use of aids, etc. Emphasis on the photograph as an art form, aesthetic considerations.

*0137/Tice/Tues. and Thurs. 6:00 — 9:30 p.m.

F.A. 5220 (561.73) Printmaking (3)

Standard methods of printmaking: intaglio, relief, planographic and stencil. Emphasis upon innovation and combination of methods. Aesthetic considerations relating to printmaking as an art form.

0138/Metzger/Tues. and Thurs. 8:30 a.m. — 12:00 noon

F.A. 5300 (561.71) Sculpture (3)

Work in most media of sculpture. Carving, casting, ceramics, welding, construction, direct plaster and concrete. Emphasis on individual problems of design and techniques.

0139/Nicolescu/Tues. and Thurs. 8:30 a.m. — 12:00 noon

F.A. 5400 (561.72) Ceramics (3)

Hand building and the potter's wheel. Kiln stacking and firing of electric, gas and wood-fired kilns. Compounding glazes and development of glaze experiments. Earthenware and stoneware.

0140/Hartshorn/Tues. and Thurs. 8:30 a.m. — 12:00 noon

F.A. 5420 (561.74) Textiles (3)

Development of both designing ability in woven, dyed, printed and decorative fabrics and awareness of aesthetic and structural qualities of old and contemporary textiles. Use of two, four and eight-harness looms, investigation and use of natural and commercial dyes, characteristics of natural and synthetic fibers.

0141/Markholm/Mon. and Wed. 8:30 a.m. — 12:00 noon

F.A. 5430 (561.75) Metals (3)

Design and production of forms in metal; raising, fabricating, forging, bending, casting, decorative techniques including enameling, chasing, etching, engraving.

0142/Goodwin/Mon. and Wed. 8:30 a.m. — 12:00 noon

F.A. 5700 (561.11) Art in History I (3)

A survey and analysis of the history of art from its primitive beginnings to the decline of the Middle Ages. Sculpture, painting, architecture and many minor arts; the history of their formal and symbolic development; social, political, religious and psychological influences which affected their development. Special emphasis on the role of art as a means of direct communication of concepts and values between the artist and his society, between the ancient peoples and ourselves. Visual reference provided by various public collections of the art in the metropolitan area.

0143/Wilber/10:00 — 11:20 a.m.

Hist. 5810 (585.10) Impact of Science and Technology on Culture (3)

Study of the modern scientific and technological impact upon the development and transformation of world cultures. The resultant common social, economic, political and educational problems — from urban crisis to student unrest and intellectual anxiety. These problems and probable solutions discussed. Stress on need for anticipating probable consequences of scientific and technological innovations. Introduction to growing number of serious studies of world futurists and their organizations. Should not be taken by those who have had Hist. 4882 Philosophy, Science and Civilization II.

†0144/Didsbury/11:30 a.m. — 2:20 p.m.

Interdisciplinary Courses

I.D. 5030 (570.65) Family Life (3)

Traditional concepts and expectations attached to marriage and family living reexamined in terms of the impact and demands of contemporary life. Changes in role patterns; the status of women; child rearing practices; attitudes toward male-female relationships; effect of mass communications systems; proliferation of service agencies; expanded functions of the school.

0146/Strauss/10:00—11:20 a.m.

I.D. 5100 (580.10) Education and Contemporary Civilization (3)

Study of the cultural patterns of the world and their importance to educators. Modern educational practices viewed as part of the fabric of a society, mirroring its concerns and values. Analysis of skills necessary for understanding contemporary civilization and practice in developing these skills.

0147/Tehie/8:30—9:50 a.m.

I.D. 5200 (560.10) Education and the Humanities (3)

An examination of the humanities and their relevance to education and to the conditions of modern man and the modern world. The humanities considered in their historic function as the liberating studies as well as in their importance within the structure of contemporary education.

0148/Currier/8:30—9:50 a.m.

I.D. 5906 (597.--) Contemporary Issues—Conflict and Violence in American History (3)

Outbreaks of violence when dissenting elements have been prevented from correcting chronic injustices studied with especial effort to gain insight into the American historical experience.

0149/Luscombe/10:00—11:20 a.m.

I.D. 5908 Contemporary Issues—World War II (3)

A detailed study of the second World War in which the focus will be on the forces and personalities that shaped the events.

†0150/Mayer/11:30 a.m.—2:20 p.m.

Mathematics

Math. 5220 (591.82) Theory of Groups (3)

Finite additive groups; cyclic, abelian and factor groups. Isomorphism and homomorphism. Direct products. Sylow theorems. Jordan-Hölder Theorem.

*0152/Lipson/5:45—7:50 p.m.

Math. 5400 (591.01) Advanced Calculus (3)

Continuity; integration; convergence; differentiation; differential geometry and vector calculus; complex analysis.

Prerequisite: 6 hours of calculus.

*0153/Lipson/8:00—10:05 p.m.

Math. 5901-5902 (591.21-22) Computer Digital Computation Algorithms (3, 3)

Preparing and processing of data via terminals and/or computers. Analyses of functions, algorithms, different base systems, error analysis. Applications to related areas of academic studies. *Background in mathematics recommended. No previous training or experience in computer information processing assumed.*

0154/Garb/10:00 a.m.—12:50 p.m.

Music

Mus. 5240 (563.85) Trends in Contemporary Music (3)

Contemporary music in its various forms. Special emphasis on innovations in form and expression in the works of composers since Wagner. Music considered as a cultural element of its time and studied in its social and historical context.

*0156/Grace/8:00—10:05 p.m.

Mus. 5250 (563.20) Symphonic Masterworks (3)

The great works of the symphonic repertoire. The development of the symphonic form shown through representative works from Renaissance to present.

0157/Golub/8:30—9:50 a.m.

P.E. 5945 (555.45) Organization of Recreation for School and Community (3)

Effective methods and types of organization; principles and factors of successful community organization; relationships among agencies; principles for working with personnel, including volunteers; budget making; facilities maintenance.

*0158/Cummings/5:45—7:50 p.m.

Pol. Sci. 5020 (583.20) Contemporary Political Problems (3)

An analysis of the major American political problems and issues.

*0159/Kelly/5:45—7:50 p.m.

Pol. Sci. 5030 (583.30) Readings in Political Science (3)

A study of the literature of political science with emphasis upon the individual author and his attempt to define and solve political problems.

0160/Kahn/10:00—11:20 a.m.

Psy. 5110 (570.31) The Developmental Study of Children (3)

Advanced course offering a critical analysis of an investigation into the nature of human development. Designed to develop a mature understanding of how to work effectively with children in contemporary society, including its schools. The importance of the development of empathy and empathic relationships.

†0162/Youtz/11:30 a.m.—2:20 p.m.

0163/Scire/8:30—9:50 a.m.

*0164/Braisted/5:45—7:50 p.m.

Psy. 5120 (572.12) Social Psychology of Adolescence (3)

Current issues and related theory and research in the social psychology of adolescence. Personality and cognitive development, the peer group and parent-youth relationships, socio-political action, the disadvantaged youth, the role of the educational institution in adolescent development.

0165/Harris/10:00—11:20 a.m.

Psy. 5230 (572.25) Tests and Measurements (3)

The principles of measurement underlying test construction and use. The aims of testing, an understanding of basic statistical procedures, problems of test administration, scoring and interpretation and the importance of test reliability, validity, norms and research. The range of tests currently available and the planning of testing programs.

Prerequisite: Psy. 3200 Psychological Statistics or Math. 5500.

0166/Mercer/10:00—11:20 a.m.

†0167 (guidance)/Healy/11:30 a.m.—2:20 p.m.

Psy. 5320 (572.17) Learning Theory and Applications (3)

Major concepts and theories of learning. Interrelation of learning and factors in motivation; underlying learning principles; learning technology and applications in educational setting.

Prerequisite: Psy. 5110 or equivalent.

0168/Golden/8:30—9:50 a.m.

Psy. 5510 (572.51) Theories of Personality (3)

Various systematized conceptualizations of personality theories. Psychoanalytic theories of personality, field theory, learning theories, phenomenological and existential theories of personality. Each theoretical orientation applied to personality and behavioral assessment in practical living and professional relationships. Not open to students who have completed a basic course in personality theory.

†0169/R. Roth/11:30 a.m.—2:20 p.m.

0170/Samenfeld/11:30 a.m.—12:50 p.m.

Physical Education

Political Science

Psychology

Psy. 5520 (572.44) Abnormal Psychology and its Educational Implications (3)

The symptoms, contributing factors, dynamics and treatment of emotional and behavioral disorganizations considered in terms of their overt manifestations and their underlying psychological, biological and social meaning. Emphasis given to psychosis, neuroses and personality disorders. Not open to students who have completed a basic course in abnormal psychology.

‡0171/R. Roth/11:30 a.m. — 2:20 p.m.

Psy. 5550 (572.42) Behavior Disorders of Children (3)

Major topics and issues related to child pathology. Behavior disorders viewed as reactive, organic or a combination of the two. Etiology, symptoms and prognosis studied from the point of view of psychoanalytic interpretation with supplementary contributions from learning theory and theories stressing possible constitutional components in each disorder.

Prerequisites: Psy. 5110 and Psy. 5520 or permission of instructor
0172/Scire/10:00 — 11:30 a.m.

Psy. 5610 (572.10) Advanced Social Psychology (3)

Major theories and findings on psychological factors, processes and dynamics inherent in interpersonal interaction and social behavior. Human aggressiveness, interpersonal perception, social attitudes, interpersonal communication, group pressure and conformity and role behavior. Foundations of human social behavior and social-psychological aspects of prejudice, hostility, ethnocentrism and other manifestations of contemporary social psychopathology.

0173/Strauss/11:30 a.m. — 12:50 p.m.

Psy. 5870 (572.66) Psychological Clinical Case Studies — Practicum (3)

The advanced student in school psychology has an opportunity to make clinical case studies under supervision. He is guided in an appropriate selection of tests. He writes the clinical report, taking into account reports of other specialists. He makes educational and referral recommendations. The student attends case conference with other professionals and gains competence in providing the psychological contribution to the case study.

Prerequisites: Psy. 5550, 5840 and approval of school psychology coordinator
0174/Steiner/8:30 a.m. — 12:30 p.m.

Sp. Ed. 5000 (540.22) Physiological Bases of Learning (3)

Comprehensive study of the central nervous system, both basic and applied. Basic elements of various appropriate disciplines integrated, providing insight into the bases of learning and disorders of learning.

0177/Gaza/10:00 — 11:20 a.m.

Sp. Ed. 5010 (540.20) Psychology of the Handicapped (3)

The psychology of all types of exceptionality, mental, physical, emotional and social. All deviances, their etiologies, treatment and educational strategies. The psychological implications of these deviations and the role of the special education teacher in helping the individual.

0178/Gasorek/8:30 — 9:50 a.m.

Sp. Ed. 5050 (572.21) Psychological Testing (3)

Investigation of the theoretical basis underlying clinical tests of intellectual ability, aptitudes and adjustments. Current trends in psychological testing examined and evaluated against a background of historical developments in this field. Emphasis on educational implications of various test protocols. Opportunities provided for observation of test procedures and practices in administration of those clinical tests most frequently employed in an educational environment.

0179/Gaza/11:30 a.m. — 12:50 p.m.

Sp. Ed. 5110 (541.10) Principles and Practices of Curriculum Development for Teachers of the Mentally Retarded (3)

Current trends in curriculum development for the mentally retarded reviewed and evaluated in light of research dealing with the needs and characteristics of such children at different maturation levels. Principles of curriculum development applied to the building of a functional curriculum.

0180/Weissberg/10:00 — 11:20 a.m.

Sp. Ed. 5120 (541.20) Arts, Crafts and Developmental Activities for the Retarded (3)

The role of arts and crafts in a program for the retarded. Emphasis on development of sequential activities commensurate with the abilities of the children.

0181/Ferrazarro/10:00 — 11:20 a.m.

Sp. Ed. 5227-5228 (543.27-28) Advanced Clinical Practice in Speech Pathology I and II (2, 2)

Demonstration and practice with different types of speech handicapped persons in diagnosis, referral to other specialists and treatment procedures. Designed especially to give the student an opportunity to meet state and ASHA certification requirements in the area of supervised clinical practicum. 5227-5228 must be taken concurrently.

Prerequisites: Sp. Ed. 3256 or 3257 Speech Pathology I or II or Sp. Ed. 4260 Speech Pathology and permission of instructor prior to registration.

0182/Heller/Tues. and Thurs. 10:00 a.m. — 2:30 p.m.

Sp. Ed. 5310 Emotionally Disturbed Children in the Classroom (3)

Interaction between the emotionally disturbed child and the classroom and its environment as a social system. Emphasis on social field theory, communication and the school values and mores as they are experienced by the emotionally disturbed and the classroom teacher.

Prerequisite: Sp. Ed. 2051 Introduction to Education of the Handicapped

‡0183/J. Roth/11:30 a.m. — 2:20 p.m.

Sp. Ed. 5321 (542.21) Nature and Needs of the Emotionally Disturbed and Socially Maladjusted (3)

Identification and recognition of maladjusted children in a school setting. Their nature and needs.

‡0184/J. Roth/11:30 a.m. — 2:20 p.m.

Sp. Ed. 5360 (510.60) Supervised Experience with Emotionally Disturbed and Socially Maladjusted (3)

Designed to provide understanding of purposes and functions of various community agencies which educate disturbed and maladjusted children. Several such agencies visited. Each student assigned to work in an agency for a minimum of 150 hours in order to experience more thoroughly its approach. Open to matriculated degree students by prearrangement. Does not fulfill student teaching requirement.

Prerequisite: Permission of instructor

0185/Fisher/time to be arranged

Sp. Ed. 5490 (510.62) Internship for Learning Disabilities Specialist (3)

For students in the graduate planning program or non-degree study leading to approval as learning disabilities specialist, who have completed all other requirements. Students participate in the team process, educational diagnosis, remediation and consultation.

Prerequisite: Permission of learning disabilities advisor.

0186/Gasorek/8:30 a.m. — 2:20 p.m.

Sp. Ed. 5322 (542.22) Materials, Programs and Methods for Teaching the Emotionally Disturbed and Socially Maladjusted (3)

Emphasis on curriculum design, teaching techniques, clinics, programs and materials.

Prerequisite: Sp. Ed. 5321 or equivalent.

0187/Krapes/8:30 — 9:50 a.m.

Special Education

S.P.S. 5950 (544.50) Principles and Procedures of Counseling (3)

Intensive and extensive exposure to various approaches to counseling. In addition to films, tapes, role-playing and class discussions, students will be involved in counseling sessions with actual groups to be selected and established by the student.

* 0190/Bachkai/8:00 — 10:05 p.m.

†0191/Valla/11:30 a.m. — 2:20 p.m.

S.P.S. 5962 (544.52) Group Process in Guidance (3)

Major emphasis on achieving better understanding of the self, group, its characteristics and components and the relationship of group process to an effective guidance program. May be taken without S.P.S. 5961.

0192/Valla/1st class meeting 5:45 p.m. plus 2 weekends

S.P.S. 5971 (544.71) Community Organization and Services (3)

The development of community service agencies to meet community needs and ways of coordinating these services with schools. Current legislation, legal implications; the techniques of community study and program development.

‡0193/Presley/11:30 a.m. — 2:20 p.m.

S.P.S. 5980 (544.70) Practicum in Counseling — Guidance or Social Work (3)

Appropriate supervised field work in a guidance or social work setting.

Prerequisites: Sp. Ed. 5910, 5950, two other student personnel courses and the permission of the instructor.

0194/Healy/1st class meeting 10:00 a.m.

Undergraduate Courses at Union Intersession and Summer Session

UNDERGRADUATE COURSES AT UNION
INTERSESSION MAY 21 — JUNE 14

Courses meet every evening, Monday through Thursday. Please check the class time in each course listing. The course listing reads as follows:

Course no. Title (sem. hrs.)

Description of course

Prerequisite:

ref. no./instructor/time

Communication Sciences

C.S. 3400 The Teaching of Reading in the Elementary School (3)

A detailed study of a productive reading program from its beginning through the eighth grade. Emphasis is on materials, methods, research results and modern trends.

9301/Gold/7:40 — 10:10 p.m.

C.S. 4400 Advanced Reading Techniques (3)

Designed to study in depth current methods and materials for the teaching of reading. Background of knowledge about the total field of reading is broadened. Learning to read, assessment of reading progress and reading in the content areas are studied. Emphasis is placed on corrective techniques in practical classroom application.

Prerequisite: C.S. 3400.

9304/7:40 — 10:10 p.m.

Early Childhood Education

E.C. 4100 Creative Techniques for Language Development in Early Childhood (3)

Understanding and practice in the use of creative techniques focused on oral language development. Includes story-telling, role-playing as a problem-solving technique, movement as a means to learning, choral reading and improvisation based upon children's feelings and experiences. Open only to Early Childhood seniors.

9307/Dumais/5:00 — 7:30 p.m.

E.C. 4210 Guiding Early Childhood Teachers to Work with Children from Minority Cultures (3)

Designed to help qualify teachers for day-care centers, pre-kindergartens or pre-school programs and primary grades. Emphasis on: the special kind of experiences needed by culturally disadvantaged children from urban core, poverty rural or migrant backgrounds; activities that promote creativity, enrichment and motivation for later academic success; problems of personal identification or self-worth and social adaptability; relationships between parents, school specialists and community workers.

9309/Miyakawa/7:40 — 10:10 p.m.

Earth and Planetary Environments

E.S. 1100 Cosmic Environments (4)

A study of heavenly bodies, solar systems and the sidereal universe, with emphasis on the nature of astronomical investigation.

9310/Hall/5:45 — 9:25 p.m.

9311/Krall/5:45 — 9:25 p.m.

E.S. 1200 Solid Earth Environments (4)

A study of the processes at work upon and within the earth in terms of their impact upon the preservation of the record of the history of the earth. Credit for graduation will not be granted for both Geog. 2010 and E.S. 1200.

9314/Rockman/5:45 — 9:25 p.m.

9315/Gunther/5:45 — 9:25 p.m.

Economics

Econ. 1100 Principles of Economics I (3)

The American economy; aggregate economics with emphasis on the relationships of income, consumption, savings and investment; money and banking, economic growth and the role of government.

9318/5:00 — 7:30 p.m.

Econ. 2900 The Economics of Poverty (3)

The impact of industrialization and urbanization on society and the change in the attitude towards poverty. Theoretical aspects of the nature of poverty and the reasons for its existence in the U.S. The development of federal anti-poverty policies and programs.

9319/7:40 — 10:10 p.m.

Econ. 3300 Money and Banking (3)

The nature and function of money, operations of banks, the Federal Reserve System and the Treasury. Income and monetary theory and its applications to achieve stability, employment and growth.

Prerequisites: Econ. 1100-1110 or consent of instructor.

9320/5:00 — 7:30 p.m.

E.A.S. 3100 Elementary Curriculum and Methodology (3)

Elementary school objectives, practices, curriculum patterns and planning techniques.

Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

9323/Foskey/7:40 — 10:10 p.m.

E.A.S. 3110 English in the Elementary School (3)

Study of the teaching of literature, linguistics, written expression, cursive and manuscript writing, listening and speaking.

Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

9324/Susselman/5:00 — 7:30 p.m.

E.A.S. 3120 Mathematics in the Elementary School (3)

Inquiry into the nature of mathematics and its implications for teaching, the use of visual materials in teaching, learning theories as they pertain to mathematics education and current elementary school mathematics programs.

9326/Coulter/7:40 — 10:10 p.m.

E.A.S. 3130 Science in the Elementary School (3)

A study of science content and teaching methodology including student planning, development and presentation of instructional methods and media.

Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

9327/Bongiorno/7:40 — 10:10 p.m.

9328/Hart/5:00 — 7:30 p.m.

E.A.S. 3711 Children's Literature in Education (3)

A critical study of children's books and their use in elementary and secondary school classrooms.

Prerequisite: E.A.S. 3110.

9330/Weiger/5:00 — 7:30 p.m.

E.A.S. 4140 Social Studies in the Elementary School (3)

Study of the objectives of elementary school social science, planning techniques, teaching materials, innovative programs and evaluation, emphasizing the interdisciplinary approach.

9331/Stager/5:00 — 7:30 p.m.

9332/Linkh/7:40 — 10:10 p.m.

9334/A. Resnick/7:40 — 10:10 p.m.

E.P.S. 4020 Philosophy and Education (3)

Analysis of current views on aims and processes of education. Students encouraged to formulate their own rational view of these aims and the educational practices consistent with them. Attention given to earlier insights most related to the present and possible future situation of education. Essence of course is dialogue.

9335/Healy/5:00 — 7:30 p.m.

E.P.S. 4050 Urban Education (3)

For students interested in teaching in an urban school system, especially inner-city: short orientation to the history and sociology of the contemporary urban scene; survey of the newer methods and helpful techniques; visits to selected urban classrooms; speakers representing important community offices.

9337/7:40 — 10:10 p.m.

Educational Arts and Systems

Educational Policy Sciences

Educational Psychology

Ed Psy. 3801 Educational Psychology (3)

An analysis of learning theory and its application. Considers cognition, motivation, tests and measurements.

Corerequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

9338/Gaza/5:00 – 7:30 p.m.

9339/Beard/7:40 – 10:10 p.m.

Ed. Psy. 3802 Educational Psychology of the Disadvantaged Urban Child (3)

Nature and development of the learning process for the inner-city child; emphasis on current research in compensatory programs.

Prerequisite: Ed. Psy. 3801 or permission of instructor.

9341/Hart/7:40 – 10:10 p.m.

English

Eng. 3350 Contemporary Literature (3)

American, English and European literature of the twentieth century.

9342/Urang/5:00 – 7:30 p.m.

Eng. 3507 Contemporary British and American Poetry: 1950 to Present (3)

An exploration of the most significant developments in British and American poetry since 1950.

9343/De Fanti/7:40 – 10:10 p.m.

Eng. 3915 Oral Interpretation of Children's Literature (3)

Theory and practice in the oral interpretation of children's literature with special emphasis on storytelling, prose, and poetry reading.

9344/Dunn/5:00 – 7:30 p.m.

Eng. 3940 Children's Theatre (3)

Theory and practice of theatre for children.

9345/Teran/7:40 – 10:10 p.m.

Eng. 4600 History of the Theatre (3)

Theatrical production from early primitive rituals down the centuries to today's theatre.

Emphasis placed on directors, actors and theorists.

9346/J. Murphy/5:00 – 7:30 p.m.

Fine Arts

F.A. 1000 Introduction to Art (3)

Appreciation, analysis and creation in the visual arts. Exploration of materials, tools and processes. Not for fine arts majors.

9348/Topper/7:40 – 10:10 p.m.

9349/Blockton/5:00 – 7:30 p.m.

F.A. 3910 Art in Education (3)

Understanding the child's natural modes of expression, selection of media to develop this expression, and finding ways of teaching in the elementary school which will increase aesthetic awareness, develop skills, enrich experience, and invite expression. Not intended for Fine Arts majors.

9351/Lipscomb/5:00 – 7:30 p.m.

9352/Lipscomb/7:40 – 10:10 p.m.

9354/C. Jocknowitz/7:40 – 10:10 p.m.

Health Education

H.Ed. 1100 Healthful Living (2)

A background of scientifically accurate health information, realistic criticism of various panaceas, and emphasis on positive health through planning and practicing a wholesome program of living. The course furnishes experiences for the student to find out about himself and his health needs and to act accordingly.

9357/Zelonis/5:50 – 7:30 p.m.

9358/Zelonis/7:40 – 9:20 p.m.

9359/Sherman/5:50 – 7:30 p.m.

H.Ed. 2231 First Aid and Accident Prevention (2)

An investigation of accident prevention plus the theory and practice of First Aid as recommended by the American Red Cross. At the successful completion of this course, the student receives an advanced Red Cross first aid certificate.

9362/Saks/7:40 – 9:20 p.m.

9363/Saks/5:50 – 7:30 p.m.

H.Ed. 3237 The School and Community Health Program (2)

The school and community health program, the teacher's role in school and community health services, healthful school environment, and health instruction in the elementary school.

9365/Krueger/7:40 – 9:20 p.m.

9366/Krueger/5:50 – 7:30 p.m.

9367/Donn/7:40 – 9:20 p.m.

H.Ed. 4234 Sex Education (3)

An overview of sex and sexuality in today's society, with implications for evolving male-female relationships, dating patterns, marriage and responsible parenthood. Special attention and emphasis given to the role and responsibility of the schools in educating for sexuality.

9369/Darden/7:40 – 10:10 p.m.

H.Ed. 4333 Alcohol and Narcotics Education (2)

A comprehensive course dealing with alcoholic beverages, narcotics, and other addicting and habit-forming drugs, and the effect of their usage upon the individual and society.

9371/Ramoth/5:50 – 7:30 p.m.

9372/Ramoth/7:40 – 9:20 p.m.

Hist. 1030 History of Western Civilization I (3)

A survey of the historical development of modern civilization from early times. Special attention given to cultural diffusion and integration, to institutions and ideas.

9375/N. Goldberg/5:00 – 7:30 p.m.

Hist. 1040 History of Western Civilization II (3)

A continuation of Hist. 1030.

9376/Higgins/7:40 – 10:10 p.m.

Hist. 2303 United States History to 1877 (3)

A comprehensive study of the American people, including the colonial period, the struggle for independence and the national period through Reconstruction.

9378/Fridlington/5:00 – 7:30 p.m.

Hist. 2304 United States History, 1877 to Present (3)

A study of the development of American industrialism, westward expansion, the reform impulse and foreign affairs to the present day.

9379/Battista/7:40 – 10:10 p.m.

Hist. 2471 History of Far Eastern Civilization I: From Early Times to the 19th Century (3)

Designed to give the student an intelligent understanding and appreciation of the great cultural traditions of the Far Eastern World. Surveys the culture and civilizations of China, Japan, and Korea from early times to the 19th Century, with significant source materials in suitable English Translations.

9381/Didsbury/5:00 – 7:30 p.m.

Hist. 2510 Political History of Africa in the 20th Century (3)

A study of the development of African nationalism in the 20th century, and its emergence from European colonial domination.

9382/Spaulding/7:40 – 10:10 p.m.

History

Industrial Studies	<p>Hist. 4366 American Foreign Affairs II: 1899 to Present (3) The emergence of the United States as a world power examined with particular attention to imperialism, World Wars I and II, and the cold war. Prerequisite: Hist. 2303-2304. 9383/Mayer/7:40—10:10 p.m.</p> <p>I.S. 1101 Introduction to Industrial Studies (2) Analysis and discussion of the nature, content and implications of problems relating to further development of industrial education. 9385/Snyder/5:50—7:30 p.m.</p> <p>I.S. 1600 Elements of Graphics (2) Experiences in the fundamentals of letterpress printing, screen process reproduction and offset lithography. 9387/Angebrandt/6:00—9:20 p.m.</p> <p>I.S. 2301 Machine Woodworking (3) The development of skills, techniques and procedures in safely using and maintaining woodworking machines, both stationary and portable. Prerequisite: I.S. 1300 9388/Peterson/6:00—9:40 p.m.</p> <p>I.S. 2401 Welding Technology (3) Designed to provide students with an opportunity to become certified in the areas of oxyacetylene and electric arc welding. Development of basic welding skills and the safe and intelligent operation of welding equipment. The principles of welding and the characteristics of metals which dictate varying welding methods, procedures and techniques. <i>Classes will be taught in cooperation with Union County Vocational-Technical School, Scotch Plains. Students are requested to obtain applications for this course from the Industrial Studies office prior to May 1, 1973.</i> 9389/Sladicka/5:00—10:00 p.m.</p> <p>I.S. 2500 General Electricity-Electronics (3) Practical understanding and application of the electrical-electronic concepts found in all areas of industrial education. Prerequisite: I.S. 1500. 9390/Cokewood/6:00—9:40 p.m.</p> <p>I.S. 3303 Carpentry and Building Construction (3) Tools, materials and methods used in the construction of wood frame buildings to include framing, estimating and techniques employed in construction. 9391/Van Nest/6:00—9:40 p.m.</p> <p>I.S. 4104 Principles and Techniques of Education (3) This course introduces the student to curriculum patterns, planning techniques, methods of discussion, and to general principles of instruction required for teaching in either elementary or secondary schools. 9393/Christoffel/7:40—10:10 p.m.</p>	Mathematics
Library Science	<p>L.S. 2000 Introduction to School Library Service (3) The role of the school library: growth and development as an integral part of the educational process; its current function as an instructional materials center with collections of both book and audio-visual materials. Leadership role of the librarian as an educator and the school librarian's achievement of this position. 9396/Schwartz/5:00—7:30 p.m.</p>	
Management Science	<p>Mgt. Sci. 1030 Fundamentals of Business Analysis (3) Fundamental economic and business analysis of the domestic market; role of monetary policy; examination of marketing and financial functions and institutions; opportunities in international business. 9322/7:40—10:10 p.m.</p>	

<p>Math. 1011 Number Theory in Elementary Mathematics (3) The study of the properties of prime numbers has intrigued professional as well as amateur mathematicians. Many of these ideas about prime numbers can be used in developing interest and creativity in elementary school mathematics. Other topics include: Figurate numbers, composite numbers, factorization methods, modular arithmetic, Euler's function. For non-mathematics majors. 9400/Santomauro/7:40—10:10 p.m.</p> <p>Math. 1012 Sets and Logic in Elementary Mathematics (3) Elementary set operations and the laws of logic. Applications to probability theory. For non-mathematics majors. 9402/Plotkin/5:00—7:30 p.m.</p> <p>Math. 1014 Elementary Number Systems (3) The postulates of the natural numbers, the integers, and the rational numbers are studied. Elementary set operations and historical numeration systems are also included. For non-mathematics majors. 9404/Plotkin/7:40—10:10 p.m.</p> <p>Math. 1016 Descriptive Statistics (3) Graphic treatment of data; mean, median, mode; variance, standard deviation, and correlation. Non-parametric techniques such as chi-square and rho are included. 9406/Zoll/5:00—7:30 p.m.</p>	Music
<p>Mus. 1000 Music Survey (3) Understanding of music through study of music elements, forms, terms, styles, composers, and representative compositions in class, outside listening and music performance attendance. No prerequisites. 9409/Cullen/7:40—10:10 p.m. 9410/Gerrish/5:00—7:30 p.m.</p>	
<p>Mus. 1050 Music Fundamentals (3) Introduction to rudiments of music and notation. Developing understanding of the music language and facility in music reading and aural perception, through class and individual vocal and instrumental practice and written work. This course is designed as preparation for Mus. 2305, 2310, music education courses required of early childhood and elementary education majors. 9412/W. Price/5:00—7:30 p.m. 9413/Montgomery/7:40—10:10 p.m.</p>	
<p>Mus. 2305 Early Childhood Music Education (2) Music activities and materials for nursery school, kindergarten, and primary grades. Direct participation in singing and rhythmic activities, playing and reading music with simple melody instruments, use of the autoharp, rhythm instruments and recordings. Prerequisite: Mus. 1050 or permission of the instructor. 9415/Engelhard/7:40—9:20 p.m.</p>	
<p>Mus. 2310 Elementary School Music Education (2) Music activities and materials for children in the elementary grades. Direct participation in singing and rhythmic activities, playing and reading music with simple melody instruments, use of the autoharp, rhythm instruments and recordings, use and evaluation of books and materials for music education on the elementary and grade school level. Prerequisite: Mus. 1050 or permission of the instructor. 9417/Engelhard/5:50—7:30 p.m.</p>	

Philosophy	<p>Phil. 1040 Philosophy (3) A general introduction to the ideas of great philosophers, major schools of thought, and basic issues. Among the topics considered are the meaning of philosophy, reality, knowledge, values and social philosophy. 9421/7:40—10:10 p.m.</p> <p>Phil. 2410 Philosophy of Religion (3) The philosophical basis of the major Western religions. Attention is given to traditional proofs of God's existence, the problem of evil, the relation between science and religion, and the significance of contemporary Death-of-God theology. Prerequisite: 3 semester hours in philosophy or permission of instructor. 9423/5:00—7:30 p.m.</p>	<p>Psy. 2110 Psychology of Adolescence (3) An examination of the nature of adolescence, as characterized by the group of developmental problems (biological, psychological, and social in origin), typically occurring during the second decade of life. Prerequisite: Psy. 1000. 9438/5:00—7:30 p.m. 9439/Hubschmitt/7:40—10:10 p.m.</p> <p>Psy. 3201 Psychological Statistics Survey (1) A brief survey of topics considered in Psychological Statistics. Prerequisite: Math. 1016 or equivalent. 9441/M. Harris/May 21-May 31, 5:50—7:30 p.m.</p>	
Physical Education	<p>P.Ed. 3511 Physical Education in the Elementary School (2) Methods and materials for the elementary school developed through laboratory workshop approach using classrooms, gymnasiums and outdoor play-space situation. Trains classroom teachers for individual leadership or cooperation with specialist. For evening certification students. 9425/7:40—9:20 p.m. 9426/5:50—7:30 p.m. 9427/7:40—9:20 p.m.</p> <p>P.Ed. 3524 Care and Prevention of Athletic Injuries (2) The most recent information on the prevention and treatment of athletic injuries. Orientation to equipment, procedures and care and management of a training room. One lecture and one laboratory per week. Prerequisite: Bio. 2402 and permission of instructor. 9429/5:50—7:30 p.m.</p> <p>P.Ed. 3621 Play and Rhythm Activities in Early Childhood Education (2) Creative and dramatic activity as it relates to play and rhythmic responses of young children, covers progressions to and presentation of games of low organization and rhythmic activities for the kindergarten and primary teacher with stress on kinds of movement desirable for each group. 9430/5:50—7:30 p.m.</p> <p>P.Ed. 4551 Adaptive Physical Education (2) Introduction to the nature of the most common handicapping conditions most likely to occur in the school system. Organization, administration and teaching of adaptive programs. 9432/7:40—9:20 p.m.</p> <p>P.Ed. 4554 Organization, Administration and Supervision of Health and Physical Education (3) Facilities, equipment and personnel involved in programs in physical education and health education. Types of organization and problems in administration and supervision. Prerequisites: H.Ed. 3233 and P.Ed. 3544. 9433/7:40—10:10 p.m.</p>	<p>Psy. 3630 Social Psychology (3) The social influences on individual behavior and experience. How the thoughts, feelings, and actions of individuals are influenced by the presence of other persons and by the complex social stimuli which surround them. Prerequisite: Psy. 1000. 9442/Jacobowitz/5:00—7:30 p.m.</p> <p>Psy. 4940 Seminar: Problems in Contemporary Psychology (2) Limited to psychology majors in their senior term. A synthesis of students' previous course work in psychology, with a consideration of significant current developments in theory, research, and practice. 9444/M. Harris/7:40—9:20 p.m.</p> <p>Sp. 1102 Elementary Spanish II (3) Designed to enable the student to achieve a ready comprehension of spoken Spanish, an ability to express himself in clear simple sentences, and considerable ease in reading Spanish. 9355/Edreira/5:00—7:30 p.m.</p> <p>Sp. Ed. 2051 Introduction to Education of the Handicapped (3) Early detection and proper care of all disabilities are considered in this course. Etiology, diagnosis and prognosis, different treatments and remedial procedures and their educational implications; basic educational procedures for the various disabilities. Visitations are made to observe programs for the mentally and physically handicapped. 9446/5:00—7:30 p.m. 9447/Bilowit/7:40—10:10 p.m.</p> <p>Sp. Ed. 2052 Introduction to Psychology of the Handicapped (3) The psychology of all types of disabilities, mental and physical. The degrees of retardation, their causes and the concomitant disorders of behavior. The emotional and social adjustment of the physically handicapped. The psychological basis for appropriate education and care of all types of handicaps. 9449/Haffly/7:40—10:10 p.m.</p> <p>Sp. Ed. 2154 Introduction to Mental Retardation (3) The biological and the psychological aspects of mental sub-normality. A multi-disciplinary approach employed to familiarize the student with the characteristics of the major clinical syndromes in mental retardation. 9451/Barnhart/5:00—7:30 p.m.</p>	Spanish Special Education
Psychology	<p>Psy. 2100 Child Psychology (3) The physical, intellectual, emotional, and social aspects of childhood, including individual differences, the behavior characteristics of various age levels, and the types and methods of adjustment. Prerequisite: Psy. 1000. 9435/Kamell/5:00—7:30 p.m. 9436/M. Morgan/7:40—10:10 p.m.</p>	<p>S.P.S. 4900 Guidance (3) The guidance program in the modern secondary school educational, vocational, and personal guidance. Guidance techniques employing personal inventory, occupational and educational information and counseling studied as ways to help secondary pupils solve their problems. 9456/Bachkai/5:00—7:30 p.m.</p>	Student Personnel Services

UNDERGRADUATE COURSES AT UNION
SUMMER SESSION JUNE 25—AUGUST 3

Unless otherwise noted, daytime courses meet each day, Monday through Friday.

†Indicates courses which run for the first three weeks of summer session only, June 25—July 13.

‡Indicates courses which run the second three weeks of summer session, July 16—August 3.

*Indicates evening courses which meet Monday, Tuesday and Thursday.

Please check all course listings for class time and for special information. The course listing reads as follows:

Course no. Title (sem. hrs.)

Description of course

Prerequisite:

ref. no./instructor/time

Biology

Bio. 1000 Principles of Biology (4)

The course introduces the student to the nature of living forms, their interdependencies, and their adjustments to their physical environment. The fundamentals of structure and function dealt with in such primary processes as respiration, digestion, circulation, excretion, the control systems, reproduction, and heredity and variation of biological form through time. (3 hr. lec./2 hr. lab.)

0301/8:30—11:20 a.m.

0302/8:30—11:20 a.m.

0303/11:30 a.m.—2:20 p.m.

Bio. 2001 Social Implications of Biology (3)

Consideration of the problems generated by the discoveries in biology for man and society; biological factors of race and races and their social implications; problems due to man's persistence in overpopulation. Not open to biology majors for credit.

0305/10:00—11:20 a.m.

Bio. 2200 Cell Biology (4)

The cell as the unit of structure and function of organisms. Emphasis is placed on molecular organization, form and function of cell organelles and cell specialization.

Prerequisite: Bio. 1000, or permission of the instructor (3 hr. lec./3 hr. lab.)

*0308/Hayat/5:45—10:05 p.m.

Bio. 2601 The Ecological Environment and Man (4)

A study of biological communities found in field, forest, pond and stream; selected world biomes; distribution, classification, succession and adaptations of organisms; problems of population (including man), pollution, radiation, conservation and multiple use of natural resources. (3 hr. lec./3 hr. lab.)

Prerequisites: Bio. 1000, or permission of instructor.

0310/8:30—11:20 a.m.

Chemistry

Chem. 1000 Principles of Chemistry (4)

A one-semester terminal course in the structure of matter, the laws that describe its transformations, and the theories that attempt to explain them. Involves symbols, formulas, equations, and computations in the study of chemical change, acids, bases, salts, solutions, and organic compounds. This course may not be submitted as a prerequisite for advanced chemistry courses or to meet the chemistry requirements of a liberal arts science major. (3 hr. lec./2 hr. lab.)

*0311/Blount/5:45—9:40 p.m.

Chem. 1084 Chemistry II (4)

A continuation of Chem. 1083 which is prerequisite. (3 hr. lec./3 hr. lab.)

*0312/Luther/5:45—10:05 p.m.

Chem. 2180 Principles of Organic Chemistry (4)

A terminal one semester course dealing with the principles involved in the elucidation of the structure of organic compounds and the nature of the reactions encountered in aliphatic and aromatic chemistry. Examples of the common functional groups. Industrial and medical applications. (2 hr. lec./3 hr. lab.)

Prerequisite: Chem. 1083-1084 or permission of the instructor.

*0313/Salisbury/5:45—10:05 p.m.

C.S. 3400 The Teaching of Reading in the Elementary School (3)

A detailed study of a productive reading program from its beginning through the eighth grade. Emphasis is on materials, methods, research results and modern trends.

0315/Andrews/8:30—9:50 a.m.

0316/Andrews/10:00—11:20 a.m.

*0317/Mayes/5:45—7:50 p.m.

*0318/J. Leeds/8:00—10:05 p.m.

C.S. 4400 Advanced Reading Techniques (3)

Designed to study in depth current methods and materials for the teaching of reading. Background of knowledge about the total field of reading is broadened. Learning to read, assessment of reading progress and reading in the content areas are studied. Emphasis is placed on corrective techniques in practical classroom application.

Prerequisite: C.S. 3400.

0320/11:30 a.m.—12:50 p.m.

*0321/Mayes/8:00—10:05 p.m.

C.S. 4700 Audio-Visual Media of Instruction (3)

General principles, problems and practices involved in the selection, utilization and evaluation of audio-visual instructional media, materials, resources and experiences. The preparation of teacher-made and student-made audio-visual instructional materials. Practice in the operation and general care of audio-visual equipment. Exposure to newer technologies and learning systems.

0323/Merlo/8:30—9:50 a.m.

C.S. 4701 Planning and Producing Audio-Visual Materials (3)

Laboratory experiences in preparation and production of audio-visual materials such as transparencies, graphics, simple photography (35 mm slides and 8 mm film) and auditory media.

Prerequisite: C.S. 4700

0324/Merlo/10:00—11:20 a.m.

E.C. 3100 Children's Literature in Early Childhood Education (2)

The different techniques and merits of story-telling put into practice with groups of children. Students learn to evaluate suitability of literature for various age levels. They become familiar with good contemporary authors and illustrators of children's books as well as the historical development of the literature for young children.

0327/Salt/11:30 a.m.—12:20 p.m.

E.C. 3110 Language Arts in Early Childhood Education (5)

The development of language skills (listening, speaking, reading, writing) in young children at various age levels: techniques for providing a sound language program for nursery-kindergarten-primary age children; development of students' own skills in speaking, reading aloud and handwriting; examination of important research in this area; evaluation and use of various methods and materials of instruction.

0329/8:30—11:10 a.m.

Communication Sciences

Early Childhood Education

E.C. 3200 Child Development and Early Childhood Curriculum I (6)

The first part of a 12-semester-hour sequence showing the development of the curriculum for children through the primary grades. New aims, approaches, methods and materials derived from current knowledge and research in child development. The history of curriculum development and recent trends. Study and evaluation of techniques and materials that good teachers use in various activities. Observation and participation in day care centers, nurseries and kindergartens. Special emphasis on the use of art media and other creative materials and on the inter-relatedness of home and community.

0330/Kavanagh/8:30 — 11:20 a.m.

* 0331/Hamilton/5:45 — 10:05 p.m.

* 0332/McGriff/5:45 — 10:05 p.m.

E.C. 4200 Development and the Early Childhood Curriculum II (6)

Continuation of E.C. 3200. Emphasis on the program for the primary grades to include: various curricular approaches used in different school systems; functional learning experiences for children at different ages, maturity levels and abilities; the integration of subject areas such as social science, mathematics, language arts, crafts, art, music and physical education; understanding of the parents' and child's points of view and the specific techniques and materials for reporting to parents.

Prerequisite: E.C. 3200.

* 0334/5:45 — 10:05 p.m.

E.S. 1100 Cosmic Environments (4)

A study of heavenly bodies, solar systems and the sidereal universe, with emphasis on the nature of astronomical investigation.

* 0336/Rockman/5:45 — 10:05 p.m.

E.S. 1200 Solid Earth Environments (4)

A study of the processes at work upon and within the earth in terms of their impact upon the preservation of the record of the history of the earth. Credit for graduation will not be granted for both Geog. 2010 and E.S. 1200.

0338/Metz/8:30 — 11:20 a.m.

* 0339/Meyerson/5:45 — 10:05 p.m.

E.S. 1300 Atmospheric Environments (4)

A non-mathematical study of the atmosphere, including meteorological instruments, the general circulation of the atmosphere, fronts and air masses, cyclones, hurricanes, and the upper atmosphere. Atmospheric phenomena discussed in terms of structure and prediction.

0341/Zois/8:30 — 11:20 a.m.

* 0342/Robinson/5:45 — 10:05 p.m.

Econ. 1100 Principles of Economics I (3)

The American economy; aggregate economics with emphasis on the relationships of income, consumption, savings and investment; money and banking, economic growth and the role of government.

0345/8:30 — 9:50 a.m.

* 0346/5:45 — 7:50 p.m.

Econ. 1110 Principles of Economics II (3)

The allocation of resources and distribution of income through the price system with emphasis on the American economic system.

0348/11:30 a.m. — 12:50 p.m.

* 0349/8:00 — 10:05 p.m.

Econ. 2200 Economic Development (3)

A brief survey of development theories. Problems and factors of economic development. Case studies of underdeveloped countries.

* 0350/5:45 — 7:50 p.m.

E.A.S. 3100 Elementary Curriculum and Methodology (3)

Elementary school objectives, practices, curriculum patterns and planning techniques.

Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

0351/Foskey/10:00 — 11:20 a.m.

* 0352/Foskey/5:45 — 7:50 p.m.

E.A.S. 3110 English in the Elementary School (3)

Study of the teaching of literature, linguistics, written expression, cursive and manuscript writing, listening and speaking.

Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

0354/P. Cash/8:30 — 9:50 a.m.

* 0355/Weiger/5:45 — 7:50 p.m.

* 0356/Weiger/8:00 — 10:05 p.m.

E.A.S. 3120 Mathematics in the Elementary School (3)

Inquiry into the nature of mathematics and its implications for teaching, the use of visual materials in teaching, learning theories as they pertain to mathematics education and current elementary school mathematics programs.

0358/Zahn/10:00 — 11:20 a.m.

0359/Seitz/11:30 a.m. — 12:50 p.m.

* 0360/Butcher/5:45 — 7:50 p.m.

* 0361/Butcher/8:00 — 10:05 p.m.

E.A.S. 3130 Science in the Elementary School (3)

A study of science content and teaching methodology including student planning, development and presentation of instructional methods and media.

Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

0363/Froude/8:30 — 9:50 a.m.

0364/Froude/11:30 a.m. — 12:50 p.m.

* 0365/E. Richardson/5:45 — 7:50 p.m.

* 0366/Peters/8:00 — 10:05 p.m.

E.A.S. 3134 Environmental Studies in the Elementary School (3)

An interdisciplinary approach to the development of environmental studies in the elementary science curriculum.

Prerequisite: E.A.S. 3130 or its equivalent.

† 0368/Sack/11:30 a.m. — 2:20 p.m.

E.A.S. 3150 Introduction to Bilingual Education (3)

Analysis of concepts of bilingualism; study of objectives, curriculum, methods, materials and existing programs in bilingual education. Observation in bilingual classrooms.

* 0370/Braga/5:45 — 7:50 p.m.

E.A.S. 3151 Teaching Techniques in Spanish for Bicultural Schools (3)

Fundamental concepts of Spanish language and culture as they relate to the curriculum of the urban elementary school (K-8). Idiomatic expression, language and communication skills with Spanish-speaking children, parents and communities. Extensive field work.

* 0371/Braga/8:00 — 10:05 p.m.

E.A.S. 3710 Teaching English as a Second Language (3)

Analysis of the problems involved in English instruction where English is a second language. Ethnic and linguistic backgrounds of children for whom English is a second language. Accepted by the English department as fulfilling the requirement in language for English majors.

0372/Brilliant/10:00 — 11:20 a.m.

* 0373/Messerschmitt/5:45 — 7:50 p.m.

E.A.S. 4140 Social Studies in the Elementary School (3)

Study of the objectives of elementary school social science, planning techniques, teaching materials, innovative programs and evaluation, emphasizing the interdisciplinary approach.

0375/Corrie/8:30—9:50 a.m.

0376/Corrie/11:30 a.m.—12:50 p.m.

* 0377/Linkh/8:00—10:05 p.m.

E.A.S. 4502 Secondary Curriculum and Methodology (3)

Survey of secondary school curriculum. Planning techniques, general methods of instruction and evaluation.

0379/Esposito/11:30 a.m.—12:50 p.m.

* 0380/Esposito/5:45—7:50 p.m.

E.P.S. 2000 Introduction to Education (3)

An invitation to students to consider the nature, aims and methods of education particularly in the light of their own school and social experience. Emphasis throughout on the major problems and opportunities of the present and future. Every effort made to involve participants actively, in class and out, in the theory and practice of education.

0382/Williams/8:30—9:50 a.m.

E.P.S. 4010 History of Education (3)

Consideration of education as a dynamic institution in the culture of Western Civilization from Greek beginnings to contemporary America. Traced within a total historical context which includes geography, influential leadership and other developmental factors which are often the deep roots of evolution and innovative ideas and practices in an ever-changing society.

0383/Franklin/11:30 a.m.—12:50 p.m.

E.P.S. 4030 Education and Social Change (3)

To help the educator understand his role as a change-agent, the main theories of change, resulting from inventions, reforms, revolutions and utopias are examined. Special attention given to the problem of resistance to needed educational and social innovations.

* 0384/Welch/5:45—7:50 p.m.

E.P.S. 4040 Comparative Education (3)

Education in the United States and in other representative areas of the world compared. Emphasis placed on the foundations of education in their historic, socio-economic, and political setting.

0386/Williams/10:00—11:20 a.m.

E.P.S. 4050 Urban Education (3)

For students interested in teaching in an urban school system, especially inner-city: short orientation to the history and sociology of the contemporary urban scene; survey of the newer methods and helpful techniques; visits to selected urban classrooms; speakers representing important community offices.

* 0388/Welch/8:00—10:05 p.m.

Ed. Psy. 3801 Educational Psychology (3)

An analysis of learning theory and its application. Considers cognition, motivation, tests and measurements.

Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

0390/Larghi/8:30—9:50 a.m.

0391/Larghi/10:00—11:20 a.m.

* 0392/Fanelli/8:00—10:05 p.m.

* 0393/Fanelli/5:45—7:50 p.m.

Eng. 1101 English as a Second Language I (3)

Practice in understanding, speaking, and reading English for the student whose native language is not English. Elective credit only; not to be used to fulfil the Humanities Distribution requirement.

* 0396/8:00—10:05 p.m.

Eng. 1000 Composition I (3)

The first half of a two semester course developing the student's skill in writing expository prose and in research.

0398/B. Evans/8:30—9:50 a.m.

0399/Sanders/11:30 a.m.—12:50 p.m.

* 0400/5:45—7:50 p.m.

* 0401/8:00—10:05 p.m.

Eng. 2200 World Literature (3)

Selected readings in literature of the Western World from ancient times to the present.

0403/Scotto/10:00—11:20 a.m.

Eng. 2215 Shakespeare Survey (3)

An introduction to Shakespeare's comedies, histories and tragedies.

0404/Sanders/10:00—11:20 a.m.

Eng. 2220 American Literature to 1860 (3)

A survey from colonial times to the Civil War with emphasis on Franklin, Cooper, Poe, Emerson, Thoreau and Melville. Section 0406 features field trips related to works studied by these authors. One weekend trip scheduled July 27–July 29 to Salem, Boston, Concord. Inclusive cost, double occupancy, \$75.00, minimum 45 people. Trip open to family members and friends on space available basis. Consult instructor for detailed itinerary.

0406/Holzschlag/11:30 a.m.—12:50 p.m.

* 0407/B. Weinstein/8:00—10:05 p.m.

Eng. 2221 American Literature from 1860 to 1914 (3)

A survey from the Civil War to World War I with emphasis on Whitman, Twain, James, Howells, Crane and Dreiser.

0409/Holzschlag/8:30—9:50 a.m.

* 0410/B. Weinstein/5:45—7:50 p.m.

Eng. 2500 Children's Literature (3)

A survey of traditional and modern stories, poems, plays, and informational materials for children.

0411/Krueger/10:00—11:20 a.m.

Eng. 3335 English Romantic Literature (3)

Writings of Wordsworth, Byron, Shelley, Keats, Coleridge, Hazlitt and Lamb, studied in relation to the history and culture of the time.

0412/Wendt/10:00—11:20 a.m.

Eng. 3345 Twentieth Century British Literature (3)

Prose fiction, drama, poetry, biography and criticism and their connection with the dynamics of the culture.

0413/Larsen/8:30—9:50 a.m.

Eng. 3350 Contemporary Literature (3)

American, English and European literature of the twentieth century.

* 0414/8:00—10:05 p.m.

0415/Larsen/11:30 a.m.—12:50 p.m.

* 0416/5:45—7:50 p.m.

Eng. 3510 Aspects of the Novel (3)

Such novelists as Joyce, Gide, Kafka, Lawrence, Hemingway, Faulkner and Woolf, studied in relation to their antecedents in the realistic novel of the 19th century.

* 0418/Reicker/8:00—10:05 p.m.

Eng. 3515 Modern Drama (3)

Representative plays of such dramatists as Ibsen, Strindberg, Chekhov, Miller and Genet, discussed in terms of form and dramatic structure.

0419/10:00 — 11:20 a.m.

F.A. 1000 Introduction to Art (3)

Appreciation, analysis and creation in the visual arts. Exploration of materials, tools and processes. Not for fine arts majors.

0424/Schwartz/11:30 a.m. — 12:50 p.m.

0425/Schwartz/10:00 — 11:20 a.m.

0426/Howe/8:30 — 9:50 a.m.

* 0427/Victoria/5:45 — 7:50 p.m.

* 0428/Victoria/8:00 — 10:05 p.m.

F.A. 1100 Design I (3)

Introductory studio course for Fine Arts majors. The structuring of visual elements, leading to personal expression and artistic awareness. The first semester deals with the two-dimensional media, while three-dimensional media will be covered in the second.

0430/Coon/Tues. and Thurs., 8:30 a.m. — 12:00 noon

F.A. 1101 Design II (3)

Introductory studio course for Fine Arts majors. The structuring of visual elements, leading to personal expression and artistic awareness. The first semester deals with the two-dimensional media, while three-dimensional media will be covered in the second.

F.A. 1100 is prerequisite to F.A. 1101.

* 0431/Holloway/6:30 — 9:00 p.m.

F.A. 1230 Drawing (3)

Materials and methods in drawing, with emphasis on personal vision and expression. Historic development of style in drawing.

0432/M. Metzger/Mon. and Wed., 8:30 a.m. — 12:00 noon

F.A. 1700 Art History I (3)

Chronological study of important works of art from Prehistory to the Renaissance. Stylistic analysis and comparison. Relationship of the art form to its cultural setting.

0433/Bensky/8:30 — 9:50 a.m.

F.A. 3200 Painting I (3)

Studio course in design and expression in the media of painting, dealing with both traditional and experimental methods.

Prerequisite: F.A. 1230.

0434/Blocton/Mon. and Wed., 8:30 a.m. — 12:00 noon

* 0435/Cornish/8:00 — 10:05 p.m.

F.A. 3230 Life Drawing (3)

A study of human form through drawing from life. The human form in the expression of other cultures and our own.

Prerequisite: F.A. 1230.

* 0436/Cornish/5:00 — 8:00 p.m.

F.A. 3260 Printmaking I (3)

Materials and processes in making prints. The first semester surveys methods in relief, intaglio, lithography and serigraphy, while the second semester permits exploration according to student's interest.

Prerequisite: F.A. 1230. F.A. 3260 is prerequisite to F.A. 3261.

0437/M. Metzger/Tues. and Thurs., 8:30 a.m. — 12:00 noon

F.A. 3270 Photography (3)

Basic photography, including exposure, developing, printing, and enlarging. Historic and contemporary forms in photography.

0438/Tice/Mon. and Wed., 9:00 a.m. — 12:30 p.m.

* 0439/Tice/Tues. and Thurs., 6:00 — 9:30 p.m.

F.A. 3300 Sculpture I (3)

A studio course in the materials and methods of sculpture, emphasizing individual selection and expression. Contemporary styles in sculpture related to historic forms.

Prerequisite: F.A. 1230, F.A. 1101 or F.A. 3400.

0440/Nicolescu/Tues. and Thurs., 8:30 a.m. — 12:00 noon

F.A. 3400 Ceramics I (3)

Three-dimensional form as it relates to clay. Deals with hand-building, potters wheel, surface treatment, chemical and physical properties of clay and glazes. Ceramics as an art form.

0441/Hartshorn/Mon. and Wed., 8:30 a.m. — 12:00 noon

F.A. 3401 Ceramics II (3)

Three-dimensional form as it relates to clay. Deals with hand-building, potters wheel, surface treatment, chemical and physical properties of clay and glazes. Ceramics as an art form.

0442/Hartshorn/Tues. and Thurs., 8:30 a.m. — 12:00 noon

F.A. 3430 Jewelry I (3)

Introductory studio course which explores design and construction of jewelry. Basic forming methods are covered, as well as methods of relating other materials to metal. Jewelry and metal design as an art form in our own time and in selected historic periods.

Prerequisite: F.A. 1000 or F.A. 1101.

0445/Goodwin/Mon. and Wed., 8:30 a.m. — 12:00 noon

F.A. 3431 Jewelry II (3)

Intermediate studio course continuing the work of F.A. 3430. Study of more advanced techniques, such as centrifugal casting, enamelling, electroplating, niello and lapidary.

Prerequisite: F.A. 3430.

0446/Goodwin/Tues. and Thurs., 8:30 a.m. — 12:00 noon

F.A. 3461 Textile Decoration (3)

Materials and processes in textile decoration, treated in a more comprehensive manner than in F.A. 3460. Intended particularly for F.A. major students.

Prerequisites: F.A. 3460.

0447/Markholm/Tues. and Thurs., 8:30 a.m. — 12:00 noon

F.A. 3462 Weaving I (3)

Studio course in the design and production of woven fabrics. Techniques in the use of primitive, table and floor looms. Fiber, color, and draft analysis.

Prerequisite: F.A. 3460.

0448/Markholm/Mon. and Wed., 8:30 a.m. — 12:00 noon

F.A. 3740 Modern Art (3)

Important works from the late nineteenth and twentieth centuries in Europe and the United States. Origin and evolution of major artistic developments of the modern world.

0449/Wilbur/11:30 a.m. — 12:50 p.m.

F.A. 3750 Far Eastern Art (3)

Major monuments and stylistic movements in the art of China and other Far Eastern cultures.

0450/Bensky/10:00 — 11:20 a.m.

F.A. 3910 Art in Education (3)

Understanding the child's natural modes of expression, selection of media to develop this expression, and finding ways of teaching in the elementary school which will increase aesthetic awareness, develop skills, enrich experience, and invite expression.

Not intended for Fine Arts majors.

† 0451/J. Metzger/11:30 a.m. — 2:20 p.m.

* 0452/N. Coon/5:45 — 7:50 p.m.



French

Fr. 2101 Intermediate French I (3)

Designed to expand the student's competence and fluency in speaking, understanding, reading and writing French, and to acquaint the student with various aspects of the literature and culture of France. Credit given only upon completion of two semesters.

Prerequisite: Fr. 1102 or permission of the instructor.

†0456/Markle/11:30 a.m. — 3:00 p.m.

Fr. 2102 Intermediate French II (3)

Designed to expand the student's competence and fluency in speaking, understanding, reading and writing French, and to acquaint the student with various aspects of the literature and culture of France. Credit given only upon completion of two semesters.

Prerequisite: Fr. 1102 or permission of the instructor.

‡0457/Markle/11:30 a.m. — 3:00 p.m.

Health Education

H.Ed. 1100 Healthful Living (2)

A background of scientifically accurate health information, realistic criticism of various panaceas, and emphasis on positive health through planning and practicing a wholesome program of living. The course furnishes experiences for the student to find out about himself and his health needs and to act accordingly.

†0468/Koktish/11:30 a.m. — 1:20 p.m.

* 0469/Mayer/8:00 — 9:20 p.m.

H.Ed. 3237 The School and Community Health Program (2)

The school and community health program, the teacher's role in school and community health services, healthful school environment, and health instruction in the elementary school.

†0471/Raksanyi/11:30 a.m. — 1:20 p.m.

* 0472/Raksanyi/6:30 — 7:50 p.m.

* 0473/Raksanyi/8:00 — 9:20 p.m.

H.Ed. 4234 Sex Education (3)

An overview of sex and sexuality in today's society, with implications for evolving male-female relationships, dating patterns, marriage and responsible parenthood. Special attention and emphasis given to the role and responsibility of the schools in educating for sexuality.

0475/Darden/8:30 — 9:50 a.m.

History

Hist. 1030 History of Western Civilization I (3)

A survey of the historical development of modern civilization from early times. Special attention given to cultural diffusion and integration, to institutions and ideas.

0477/Siegal/10:00 — 11:20 a.m.

* 0478/Zimmer/5:45 — 7:50 p.m.

* 0479/Letterese/8:00 — 10:05 p.m.

Hist. 1040 History of Western Civilization II (3)

A continuation of Hist. 1030.

0480/Siegal/11:30 a.m. — 12:50 p.m.

* 0481/Zimmer/8:00 — 10:05 p.m.

* 0482/Letterese/5:45 — 7:50 p.m.

Hist. 2303 United States History to 1877 (3)

A comprehensive study of the American people, including the colonial period, the struggle for independence and the national period through Reconstruction.

0484/Furer/8:30 — 9:50 a.m.

* 0485/Rice/5:45 — 7:50 p.m.

Hist. 2304 United States History, 1877 to Present (3)

A study of the development of American industrialism, westward expansion, the reform impulse and foreign affairs to the present day.

0487/Luscombe/11:30 a.m. — 12:50 p.m.

* 0488/Rice/8:00 — 10:05 p.m.

Hist. 3324 The American West (3)

The history of the advancing frontier in the United States from colonial times through the nineteenth century with an analysis of its effect upon the institutional and intellectual development of the American people. Special emphasis given to the historiography of American frontier history.

Prerequisite: Six hours of history.

0490/Fridlington/8:30 — 9:50 a.m.

Hist. 3340 20th Century America (3)

An examination of the major economic, social, political and diplomatic trends in the twentieth century, with emphasis on the quest for social justice at home and abroad.

Prerequisite: Six hours in history.

* 0491/Battista/8:00 — 10:05 p.m.

Hist. 4328 Dissent, Crisis and Consensus in American History (3)

An effort in quantitative and impressionist history focusing on those incidents when dissent flared into violence. An attempt made to find recurring themes, make comparisons, collect and classify data, and draw conclusions.

Prerequisite: Six hours of history.

0492/Luscombe/10:00 — 11:20 a.m.

Hist. 4361 The American City (3)

The growth of urban America, beginning with the colonial seaports through the twentieth century, including the spread of industrialization, transportation and communication. The impact of the city on American culture. Present day problems — race relations, the population explosion, the rise of suburbia, and the development of megalopolis.

Prerequisite: Six hours of history.

0493/Furer/10:00 — 11:20 a.m.

Hist. 4381 History of Latin America to 1825 (3)

An historical survey of the peoples and cultures of Latin America from the pre-Columbian period to the wars of independence.

Prerequisite: Six hours of history.

* 0494/Buchanan/5:45 — 7:50 p.m.

I.S. 1101 Introduction to Industrial Studies (2)

Analysis and discussion of the nature, content and implications of problems relating to further development of industrial education.

0496/Snyder-Thatcher/8:00 — 8:50 a.m.

I.S. 1200 Elements of Drafting (2)

Application of drafting room standards and experiences in the use of drafting instruments, lettering, pencil and ink line work, freehand sketching, and in the reproduction of drawings. Instruction includes geometric construction, orthographic projection, sections and conventions, working drawings, and graph and chart construction.

0497/Vos/9:00 — 10:50 a.m.

I.S. 1300 Elements of Woodworking (2)

Experience in hand joinery, wood finishing and basic machine operation. Instruction includes units on lumber selection and use, hardware selection, fastening devices and methods and essential care and maintenance of tools and machines.

0498/Van Nest/11:30 a.m. — 1:20 p.m.

I.S. 1400 Elements of Metalworking (2)

Introductory units in the areas of foundry, sheet metal fabrication, machine operation, forging and heat treating with emphasis placed on project design, effective laboratory practice and craftsmanship.

* 0499/Sladicka/6:00 — 9:20 p.m.

Industrial Studies

I.S. 1500 Elements of Electronics (2)

Technology of electronics through examination of its most basic concepts and fundamentals. Laboratory units allow the student to apply learnings, conduct quantitative measurements, gain experience in using electronic test instruments, and develop ability to write effective technical reports.

*0500/Cokewood/6:00—9:20 p.m.

I.S. 2302 Furniture Design and Construction (3)

Principles of furniture design; approved methods and procedures of upholstery with emphasis on upholstered leg and rail assemblies.

Prerequisite: I.S. 2301.

*0501/Van Nest/6:00—9:40 p.m.

I.S. 2402 Metal Fabrication (3)

Comprehensive understanding in the areas of sheet metal fabrication, ornamental metals, and art metal with emphasis placed on design, development of advanced skills, techniques, and procedures.

Prerequisite: I.S. 1400 and 2401.

0502/Sladicka/9:00—10:50 a.m.

I.S. 2601 Advanced Letterpress Reproduction (3)

Designed to provide the student with a comprehensive background of knowledge and experience in the various aspects of letterpress printing.

Prerequisite: I.S. 1600.

0503/Angebrandt/9:00—10:50 a.m.

I.S. 3200 Design Fundamentals (3)

An investigation of the basic aspects and the traditional concepts of design and of their implication to contemporary design.

Prerequisites: I.S. 1200, 1300, 1400, 1600.

0504/Clinton/7:00—8:50 a.m.

I.S. 3204 Architectural Drafting (3)

Exploration of the basic information concerning the commonly used materials of construction and the customary methods of combining them in the erection of buildings.

Prerequisite: I.S. 2201.

*0505/Clinton/6:00—9:40 p.m.

I.S. 3604 Color Photographic Reproduction I (3)

Advanced course of photography with emphasis on light and its evaluation, color transparency exposure and development, color negative development and enlargement, and densitometric controls for quality work.

Prerequisite: I.S. 3603.

*0506/Angebrandt/6:00—9:40 p.m.

I.S. 4001 Industrial Education in the Elementary School (3)

Designed to develop an understanding of the role of industrial arts in elementary education. Experience gained in using suitable tools and materials and in developing activities with emphasis on grades 4-G.

0507/Snyder/10:00—11:20 a.m.

I.S. 4002 Industrial Arts in Early Childhood Education (2)

Early childhood majors develop an understanding of the role of industrial arts in early childhood education. Experience gained in using suitable tools and materials and in developing activities for the nursery school, kindergarten and first three grades.

0508/Thatcher/10:00—11:20 a.m.

I.S. 4102 Principles and Techniques of Teaching Industrial Arts Education (2)

Patterns of organization, class management, teaching methods and lesson planning are of primary concern. An opportunity to recognize and analyze the many problems of teaching industrial arts will be provided.

†0509/Snyder/11:30 a.m.—1:20 p.m.

I.S. 4103 Principles, Methods and Curriculum in Industrial Arts Education (2)

The study of accepted industrial arts curriculum and teaching practices used in the Public Schools of New Jersey.

†0510/Thatcher/11:30 a.m.—1:20 p.m.

I.S. 4106 Construction and Use of Audio-Visual Media (3)

Provides an awareness of the values of audio-visual materials and of the considerations involved in constructing such material. Emphasis is placed on the variety of material available for audio-visual purposes and of their application in instructional situations.

0511/Vos/11:30 a.m.—1:20 p.m.

L.S. 2000 Introduction to School Library Service (3)

The role of the school library; growth and development as an integral part of the educational process; its current function as an instructional materials center with collections of both book and audio-visual materials. Leadership role of the librarian as an educator and the school librarian's achievement of this position.

†0515/Weinstein/11:30 a.m.—2:20 p.m.

L.S. 2010 Fundamentals of Cataloging and Classification (3)

Techniques in the organization of materials for ready use are presented with emphasis upon the Dewey Decimal System of Classification. Elementary instruction in the preparation of catalog cards, selection of subject headings, acquisition and use of printed catalog cards, and organization of the card catalog.

†0516/Holland/11:30 a.m.—2:20 p.m.

L.S. 3000 Basic Reference and Bibliographical Services I (3)

Introduction and use of basic reference tools for the school library: encyclopedias, dictionaries, yearbooks, periodical indexing services, "ready" reference works, and other standard sources in the location of information.

†0517/Temkin/11:30 a.m.—2:20 p.m.

L.S. 3010 Basic Reference and Bibliographical Services II (3)

A continuation of L.S. 3000 which is prerequisite. Specialized reference works and various types of reference materials in many subject areas are studied. National and trade bibliography, bibliographic method and control, and actual procedures in the construction of bibliographies.

†0518/Temkin/11:30 a.m.—2:20 p.m.

L.S. 4000 School Library Administration (3)

Organization of both the service and instructional functions of the school library, interrelating all aspects of the previous library science offerings into one structural whole. Special attention to budgetary procedures, technical processes, library program—including instruction in the use of the library, publicity and exhibit techniques, preparation of library reports, relationship with students, faculty, and administration. Recent field experiences are used to guide the development of the above areas.

L.S. 2000 is prerequisite.

†0519/Schwartz/8:30—11:20 a.m.

L.S. 4010 Book Selection for Children and Young People (3)

Techniques in selection and evaluation of children's and young people's literature. Major emphasis upon individual acquaintance with a broad cross-section of available materials through extensive critical reading. Practice in the art of story telling and presentation of book talks. Selection and evaluation of non-print media.

†0520/Schwartz/8:30—11:20 a.m.

Mgt. Sci. 2100 Principles of Accounting I (3)

An introduction to accounting concepts and principles involved in financial reports or proprietorships, partnerships and corporations including the techniques of debit and credit, trial balances, adjustments and statements.

*0523/8:00—10:05 p.m.

Library Science

Management Science

Mgt. Sci. 2120 Business Statistics (3)

The methods used for the collection, presentation and analysis of business data, including sampling, the estimation of population parameters, index numbers, regression and correlation.

*0525/8:00—10:05 p.m.

Mgt. Sci. 3010 Management of Corporate Finance (3)

The study of the principles and procedures of finance and their applications to typical financial problems. Financial analysis, capital budgeting, long-term financing, cost analysis and concepts of valuation studied from the viewpoint of the financial manager.

*0526/5:45—7:50 p.m.

Mgt. Sci. 3100 Principles of Accounting II (3)

Use of accounting data as an aid in formulating managerial decisions analysis and interpretation of financial statements; the nature, source and flow of funds and the preparation of fund statements; the safeguarding of assets and the checking of the accuracy and reliability of accounting data through the use of internal control systems; special problems in connection with the accounting for cash, payroll and sales tax, investments, fixed assets and liabilities; and the study of cost accounting.

*0527/5:45—7:50 p.m.

Math. 1011 Number Theory in Elementary Mathematics (3)

The study of the properties of prime numbers has intrigued professional as well as amateur mathematicians. Many of these ideas about prime numbers can be used in developing interest and creativity in elementary school mathematics. Other topics include: Figurate numbers, composite numbers, factorization methods, modular arithmetic, Euler's function. For non-mathematics majors.

0529/Levine/8:30—9:50 a.m.

0530/Levine/10:00—11:20 a.m.

*0531/Krantz/8:00—10:05 p.m.

Math. 1014 Elementary Number Systems (3)

The postulates of the natural numbers, the integers, and the rational numbers are studied. Elementary set operations and historical numeration systems are also included. For non-mathematics majors.

0533/Kinsella/11:30 a.m.—12:50 p.m.

*0534/Goldberg/5:45—7:50 p.m.

Math. 1016 Descriptive Statistics (3)

Graphic treatment of data; mean, median, mode; variance, standard deviation, and correlation. Non-parametric techniques such as chi-square and rho are included.

0536/Zoll/8:30—9:50 a.m.

Math. 1052 College Algebra and Trigonometry (3)

Systems of equations and inequalities are solved by the using of the axioms of the Real Number system, matrices and determinants, and elementary theory of equations. The properties of the complex numbers, mathematical induction, and the Binomial Theorem are also studied. Algebraic, logarithmic, exponential and trigonometric functions are examined with emphasis on trigonometric identities and trigonometric analysis.

Prerequisite: 3 years of secondary school mathematics.

0538/Zoll/10:00—11:20 a.m.

*0539/Hothersall/5:45—7:50 p.m.

Math. 1931 Computer Arithmetic Algorithms (3)

Historical development of computers, components of electronic data processing equipment, flow charting, programming, keypunching, and verifying arithmetic algorithms for electronic digital processing, debugging and analysis of results related to processed algorithms form a basis to the content of computerized arithmetic algorithms. This course is designed specifically for non-mathematics majors. Laboratory facilities allow for a maximum of 20 students per section.

0540/Santomauro/11:30 a.m.—12:50 p.m.

Math. 1932 Principles and Procedures of Electronic Data Processing (3)

Fundamental principles and procedures of electronic data processing include: historical development of electronic machines, punched-card data processing, machine language coding, systems analysis and procedure, flow charts, utilization of coded-data representation for arithmetic and control units, and programming scientific and sequential information for various kinds of electronic machines.

Prerequisite: Math. 1931 or 3993.

0541/Keenoy/8:30—9:50 a.m.

Math. 2411 Calculus I (3)

The meaning and use of the derivative and differential, related to algebraic functions are studied. The concepts of function, limits, continuity and the derivative, sequences and their limits are also presented. Applications of the derivative includes the tangent and normal to the curve and the problems in maximum and minimum.

Prerequisite: Math 2408 or equivalent or permission of the instructor.

*0542/Krantz/5:45—7:50 p.m.

Math. 2412 Calculus II (3)

Integration of algebraic functions, transcendental functions, including trigonometric and logarithmic functions and application to areas enclosed by plane curves, lengths of curves, areas and volumes of solids of revolution are among the topics studied.

Prerequisite: Math. 2411 or permission of instructor.

*0543/Hothersall/8:00—10:05 p.m.

Math. 2247 Abstract Algebra I (3)

Elementary group theory, including Cayley's Theorem, Jordan-Holder Theorem, Sylow's Theorems. Ideals and Quotient Rings. Euclidean and Polynomial Rings.

Prerequisite: One year of college mathematics.

*0544/Goldberg/8:00—10:05 p.m.

Mus. 1000 Music Survey (3)

Understanding of music through study of music elements, forms, terms, styles, composers, and representative compositions in class, outside listening and music performance attendance.

No prerequisites.

0546/Huber/10:00—11:20 a.m.

0547/Herron/11:30 a.m.—12:50 p.m.

*0548/Volpe/5:45—7:50 p.m.

*0549/Feldman/8:00—10:05 p.m.

Mus. 1050 Music Fundamentals (3)

Introduction to rudiments of music and notation. Developing understanding of the music language and facility in music reading and aural perception, through class and individual vocal and instrumental practice and written work. This course is designed as preparation for Mus. 2305, 2310, music education courses required of early childhood and elementary education majors.

0551/Dorsey/8:30—9:50 a.m.

0552/Zimmer/11:30 a.m.—12:50 p.m.

*0553/Grace/5:45—7:50 p.m.

*0554/Volpe/8:00—10:05 p.m.

Mus. 1102 Music Theory II (3)

Review of music fundamentals, notations and grammar, written and keyboard harmony, ear training, sight singing and dictation.

Prerequisite: music major curriculum or department consent.

0555/8:30—9:50 a.m.

Mus. 2310 Elementary School Music Education (2)
 Music activities and materials for children in the elementary grades. Direct participation in singing and rhythmic activities, playing and reading music with simple melody instruments, use of the autoharp, rhythm instruments and recordings, use and evaluation of books and materials for music education on the elementary and grade school level.
 †0556/W. Price/11:30 a.m. — 1:20 p.m.

Philosophy **Phil. 1040 Philosophy (3)**
 A general introduction to the ideas of great philosophers, major schools of thought, and basic issues. Among the topics considered are the meaning of philosophy, reality, knowledge, values and social philosophy.
 0559/W. Stern/8:30 — 9:50 a.m.
 * 0560/R. Sitelman/8:00 — 10:05 p.m.

Phil. 1041 Justice, Freedom and the Good Society (3)
 An alternate to Philosophy 1040 dealing with the same general issues with emphasis on justice, freedom and the good society.
 0562/11:30 a.m. — 12:50 p.m.

Phil 2210 Social and Political Philosophy (3)
 The nature of the good society; the justification and criticism of social institutions as well as proposals for their reconstruction; a critique of the basic moral assumptions underlying various political doctrines and an analysis of concepts like law, natural law, rights, political obligation, equality, liberty and the common good.
 Prerequisite: 3 semester hours in philosophy or permission of instructor.
 * 0563/R. Sitelman/5:45 — 7:50 p.m.

Phil. 2410 Philosophy of Religion (3)
 The philosophical basis of the major Western religions. Attention is given to traditional proofs of God's existence, the problem of evil, the relation between science and religion, and the significance of contemporary Death-of-God theology.
 Prerequisite: 3 semester hours in philosophy or permission of instructor.
 0564/11:30 a.m. — 12:50 p.m.

Physical Education **P.Ed. 3511 Physical Education in the Elementary School (2)**
 Methods and materials for the elementary school developed through laboratory workshop approach using classrooms, gymnasiums and outdoor play-space situation. Trains classroom teachers for individual leadership or cooperation with specialist. For evening certification students.
 †0566/11:30 a.m. — 1:20 p.m.
 * 0568/6:30 — 7:50 p.m.

P.Ed. 3691 Environmental Recognizance (3)
 Demonstration of methods for producing awareness of environmental and ecological problems, patterns and relationships. Interdisciplinary strategies of moving from concept to practice affecting urban regions. Explorations of various lengths in the fields and community. A field expedition and outdoor laboratory experiences required.
 * 0569/5:45 — 7:50 p.m.

Physics **Phys. 2092 General Physics II (4)**
 A continuation of Phys. 2091 which is prerequisite. Light, magnetism, electricity, and atomic physics. (3 hr. lec./3 hr. lab.)
 * 0570/Struyk/5:45 — 10:05 p.m.

Political Science **Pol. Sci. 1010 Introduction to Political Science I: Elements of Politics (3)**
 The concepts, terminology, problems and analytical approaches of the field of political science.
 0571/8:30 — 9:50 a.m.
 * 0572/Kelley/5:45 — 7:50 p.m.

Pol. Sci. 1020 Introduction to Political Science II: Political Institutions (3)
 The study of prevailing political institutions in the world today, their dynamics as they relate to the governing process.
 * 0573/8:00 — 10:05 p.m.

Pol. Sci. 2100 American Government and Politics (3)
 The basic political principles and patterns in the American tradition. A conceptual framework provides the base for examining the role of government, constitutionalism, federalism, civil rights, political processes and the changing relationships between the "levels" and "branches" of government.
 0574/8:30 — 9:50 a.m.

Pol. Sci. 3250 American Political Theory (3)
 The central doctrinal developments in American political theory, from pre-revolutionary beginnings to various contemporary positions. Important ideological positions, both orthodox and critical. The influence of theory on practice.
 Prerequisites: Pol. Sci. 1010 and 1020.
 0575/10:00 — 11:20 a.m.

Pol. Sci. 3400 World Politics (3)
 The state system and the balance of power, war in the pattern of international relations, suggest its subject matter.
 Prerequisite: Six hours of political science or permission of instructor.
 * 0576/Kelly/8:00 — 10:05 p.m.

Psy. 1000 General Psychology (3)
 An introduction to the study of human behavior and a foundation for later specialization in psychology. Perception and sensation, cognition, learning, motivation, intelligence, and personality.
 0578/Kaplowitz/10:00 — 11:20 a.m.
 0579/F. Stern/8:30 — 9:50 a.m.
 * 0580/Pomeroy/5:45 — 7:50 p.m.

Psy. 2100 Child Psychology (3)
 The physical, intellectual, emotional, and social aspects of childhood, including individual differences, the behavior characteristics of various age levels, and the types and methods of adjustment.
 Prerequisite: Psy. 1000.
 0582/N. Harris/8:30 — 9:50 a.m.
 0583/Kamell/10:00 — 11:20 a.m.
 * 0584/5:45 — 7:50 p.m.

Psy. 2110 Psychology of Adolescence (3)
 An examination of the nature of adolescence, as characterized by the group of developmental problems (biological, psychological, and social in origin), typically occurring during the second decade of life.
 Prerequisite: Psy. 1000.
 0586/N. Harris/10:00 — 11:20 a.m.
 0587/Hubschmitt/8:30 — 9:50 a.m.
 * 0588/Di Salvi/8:00 — 10:05 p.m.
 * 0589/Di Salvi/5:45 — 7:50 p.m.

Psy. 3200 Psychological Statistics (3)
 An introduction to the statistical procedures by which small and large groups of data are treated, described, and analyzed, including interpretations and assumptions of correlation, probability and hypothesis testing, and chi square.
 Prerequisite: Psy. 1000.
 * 0591/M. Harris/8:00 — 10:05 p.m.

Psychology

Psy. 3310 Theories of Learning and Motivation (3)

Major concepts and theories of learning and motive-incentive conditions: Pavlov, Thorndike, Guthrie, Skinner, Hull, Tolman, mathematical models of learning, motives, needs, drives, instincts.

Prerequisites: Psy. 1000.

*0592/Morelli/5:45 — 7:50 p.m.

Psy. 3320 Theories of Personality (3)

The major systematized conceptualizations of personality: psychoanalytic and neopsychoanalytic theories, personologies, typologies, trait theories, field theories, learning-based theories, factor theories, and phenomenological theories.

Prerequisite: Psy. 1000.

0593/Samenfeld/11:30 a.m. — 12:30 p.m.

Psy. 3540 Abnormal Psychology (3)

Deviant and disordered behavior and experience, its overt manifestations and its underlying psychological, biological, and social meaning.

Prerequisite: Psy. 1000.

0594/Samenfeld/10:00 — 11:20 a.m.

Psy. 3650 Understanding Self and Others (3)

The implications of psychological theories and research for individual development and adjustment.

Prerequisite: Psy. 1000.

0595/F. Stern/10:00 — 11:20 a.m.

Psy. 3630 Social Psychology (3)

The social influences on individual behavior and experience. How the thoughts, feelings, and actions of individuals are influenced by the presence of other persons and by the complex social stimuli which surround them.

Prerequisite: Psy. 1000.

0597/Kaplowitz/11:30 a.m. — 12:50 p.m.

*0598/Morelli/8:00 — 10:05 p.m.

Psy. 4200 Tests and Measurements (3)

An introduction to concepts of psychological testing and a survey of various instruments used in psychology to measure intelligence, aptitudes, achievement, attitudes and personality.

Prerequisite: Psy. 1000.

0599/Mercer/11:30 a.m. — 12:50 p.m.

Psy. 4360 Physiological Psychology (3)

The interactions and relationships between the nervous system, other body processes, and behavior: fundamentals of neuronal activity; the nervous system; traditional topics such as motivation, cerebral functions, organic psychopathology; current areas of research such as the activity of the single neuron, the reticular activating system, sleep and drug effects.

Prerequisite: Psy. 1000. Bio. 2402 recommended.

*0600/Pomeroy/8:00 — 10:05 p.m.

S.W. 2900 Introduction to Social Welfare (3)

An historical overview of the societal patterns of dealing with man's social problems, from ancient to modern times, as reflections of changing values, institutions, and philosophies.

Prerequisite: Soc. 1100 or permission of instructor.

0601/Graves/8:30 — 9:50 a.m.

Social Work

S.W. 3900 Contemporary Social Policy and Services (3)

Study of current social welfare programs in relation to the policies and provisions required to meet the various social needs of the people in this and other countries. Field observations of selected community helping programs.

Prerequisite: S.W. 2900.

*0602/Metrey/8:00 — 10:05 p.m.

S.W. 3950 Methods of Social Work (3)

Examination of the major methods of social intervention with individuals, groups, and communities, with focus on the values, ethics and skills of the social work profession. Case analysis and observation of helping techniques are utilized.

Prerequisite: S.W. 3900.

*0603/Metrey/ 5:45 — 7:50 p.m.

Soc. 1000 Principles of Sociology (3)

An analysis and application of the basic concepts and research methods of sociology. Culture, community, group behavior, institutions and society are treated.

0606/8:30 — 9:50 a.m.

0607/11:30 a.m. — 12:50 p.m.

*0608/8:00 — 10:05 p.m.

*0609/5:45 — 7:50 p.m.

Soc. 1800 Cultural Anthropology (3)

By means of reading and discussions, students examine the structures and functions of the culture systems of both simple and complex societies, employing the methods and concepts of anthropology.

*0611/5:45 — 7:50 p.m.

Soc. 2100 Sociology of the Family (3)

Analysis of sociological factors in marriage and the family in modern society, with cross-cultural comparisons.

Prerequisite: sociology or anthropology or permission of instructor.

0613/8:30 — 9:50 a.m.

*0614/8:00 — 10:05 p.m.

Soc. 2300 Racial and Cultural Minorities (3)

A sociological investigation of the value systems of Americans as revealed in a study of social conflicts and accommodations based on human differences in race, nationality, religion, income, sex and age.

Prerequisite: sociology or anthropology or permission of instructor.

*0615/5:45 — 7:50 p.m.

Soc. 2710 Crime (3)

An analysis of crime within a sociological framework; the cultural setting, theories of cause, penology, and programs for treatment and prevention.

Prerequisite: sociology or anthropology or permission of instructor.

*0617/5:45 — 7:50 p.m.

*0618/8:00 — 10:05 p.m.

Sp. 1101 Elementary Spanish I (3)

Designed to enable the student to achieve a ready comprehension of spoken Spanish, an ability to express himself in clear simple sentences, and considerable ease in reading Spanish.

†0458/Portuondo/11:30 a.m. — 3:00 p.m.

Sp. 1102 Elementary Spanish II (3)

Designed to enable the student to achieve a ready comprehension of spoken Spanish, an ability to express himself in clear simple sentences, and considerable ease in reading Spanish.

‡0460/Portuondo/11:30 a.m. — 3:00 p.m.

Sociology

Spanish

Sp. 2101 Intermediate Spanish I (3)

Designed to expand the student's competence and fluency in speaking, understanding, reading and writing Spanish, and to acquaint the student with Spain and the Spanish way of life. Credit for graduation given only upon completion of both semesters.

Prerequisite: Sp. 1102 or permission of the instructor.

†0462/Socarras/11:30 a.m. — 3:00 p.m.

Sp. 2102 Intermediate Spanish II (3)

Designed to expand the student's competence and fluency in speaking, understanding, reading and writing Spanish, and to acquaint the student with Spain and the Spanish way of life. Credit for graduation given only upon completion of both semesters.

Prerequisite: Sp. 1102 or permission of the instructor.

†0464/Socarras/11:30 a.m. — 3:00 p.m.

Sp. 4420 Twentieth Century Spanish-American Poetry (3)

Reading, interpretation and analysis of selected authors and texts from post-modernism to present times. Course conducted in Spanish.

Prerequisite: Sp. 2102 or permission of the instructor.

*0466/Feito/5:45 — 7:50 p.m.

Sp. Ed. 2051 Introduction to Education of the Handicapped (3)

Early detection and proper care of all disabilities are considered in this course. Etiology, diagnosis and prognosis, different treatments and remedial procedures and their educational implications; basic educational procedures for the various disabilities. Visitations are made to observe programs for the mentally and physically handicapped.

0620/Gens/8:30 — 9:50 a.m.

0621/Krapes/10:00 — 11:20 a.m.

Sp. Ed. 2052 Introduction to Psychology of the Handicapped (3)

The psychology of all types of disabilities, mental and physical. The degrees of retardation, their causes and the concomitant disorders of behavior. The emotional and social adjustment of the physically handicapped. The psychological basis for appropriate education and care of all types of handicaps.

0623/11:30 a.m. — 12:50 p.m.

Sp. Ed. 2154 Introduction to Mental Retardation (3)

The biological and the psychological aspects of mental sub-normality. A multi-disciplinary approach employed to familiarize the student with the characteristics of the major clinical syndromes in mental retardation.

0625/Haffly/10:00 — 11:20 a.m.

0626/Haffly/8:30 — 9:50 a.m.

Sp. Ed. 2251 Speech Correction (3)

An orientation course for all classroom teachers and the basic course for speech and hearing majors. It presents an introduction to the field of speech pathology with emphasis on the recognition and treatment of speech disorders in school children.

0627/Gens/10:00 — 11:20 a.m.

Sp. Ed. 2254 Phonetics (3)

English sounds in connected speech, intonation, phonetic dictation, acoustical and anatomical relationships. Application is made to problems of language teaching and disorders of communication.

*0628/Schiavetti/5:45 — 7:50 p.m.

Sp. Ed. 3256 Speech Pathology I (Disorders of Articulation and Voice) (3)

A study of the nature, etiologies, examination, diagnoses, and remedial techniques associated with disorders of articulations and voice. Case discussions and clinic observation.

Prerequisites: Sp. Ed. 2251, 2254 and 2260.

0630/Van Atta/8:30 — 9:50 a.m.

Sp. Ed. 3153 Introduction to Curriculum Building for the Mentally Retarded (3)

The philosophy and principles of curriculum development and analysis of various approaches.

*0631/Aniello/8:00 — 10:05 p.m.

Sp. Ed. 3154 Introduction to Materials and Methods for Teaching Trainable and Educable Mentally Retarded (5)

Emphasis on the construction of programs which will adequately correlate skill subjects with the core of interest, emphasizing subject-time allotments, and subject spacing in programs for educable and trainable mentally retarded children. The evaluation and use of all records and methods of teaching the mentally retarded child.

0632/8:30 — 10:40 a.m.

Sp. Ed. 3252 Teaching Language to the Deaf and Hard of Hearing (3)

A review of auditory cognition and language development. Principles and methods of teaching language to persons having communication disorders and auditory deficits. This course meets requirements for certification in the area of teaching the deaf and hard of hearing, and is of particular value to teachers of the mentally retarded who have faulty language development.

0634/Van Atta/10:00 — 11:20 a.m.

Sp. Ed. 4053 Orientation in Psychological Testing (3)

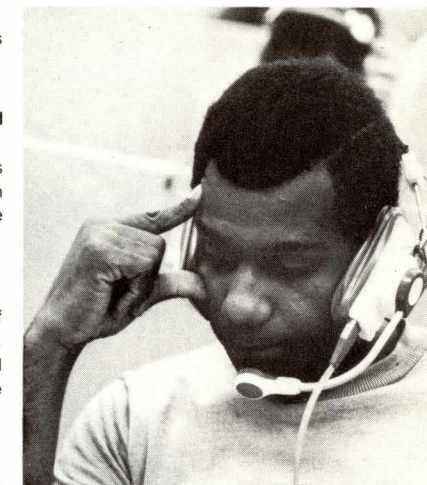
An overview of clinical tests. An introduction to the way tests are constructed and validated. Practice in the administration of a few tests under supervision to provide familiarity with the behavior of individuals, especially the mentally handicapped, in test situations.

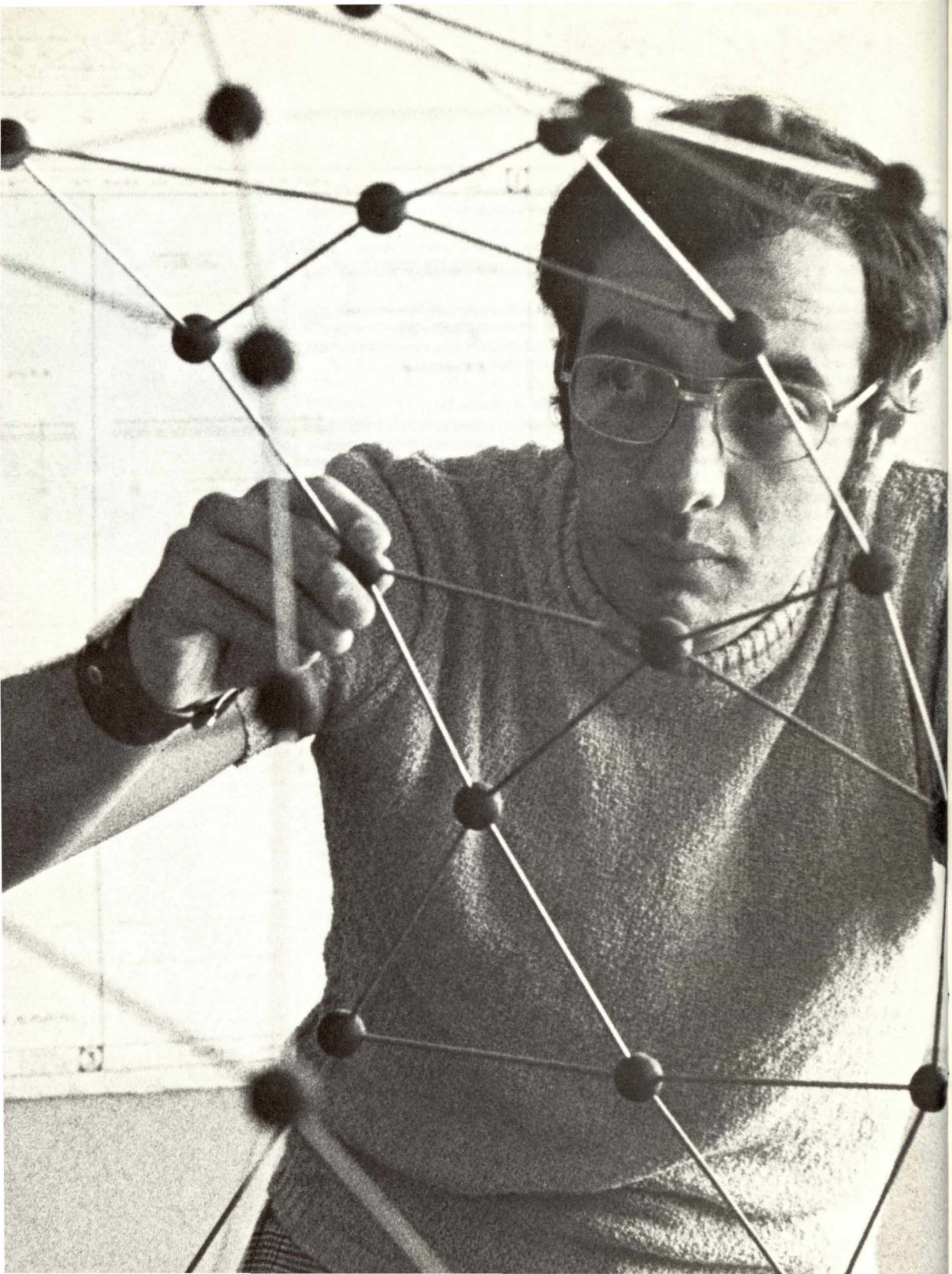
0635/Weisberg/8:30 — 9:50 a.m.

Sp. Ed. 4151 Introduction to Arts and Crafts for Mentally Retarded (3)

Meaningful and interesting manual activities for sequential skill development. Projects are with wood, leather, plastics, metal, ceramics, basketry, cardboard and weaving.

0636/Ferrazzara/11:30 a.m. — 12:50 p.m.





**Undergraduate
Courses
Off-Campus
Interession
and Summer
Session**

UNDERGRADUATE COURSES AT NEPTUNE
INTERSESSION MAY 21 — JUNE 14

Courses meet every evening, Monday through Thursday. Please check the class time in each course listing. The course listing reads as follows:

Course no. Title (sem. hrs.)

Description of course

Prerequisite:

ref. no./instructor/time

Communication Sciences

C.S. 4400 Advanced Reading Techniques (3)

Designed to study in depth current methods and materials for the teaching of reading. Background of knowledge about the total field of reading is broadened. Learning to read, assessment of reading progress and reading in the content areas are studied. Emphasis is placed on corrective techniques in practical classroom application.

Prerequisite: C.S. 3400.

9751/5:30—8:00 p.m.

C.S. 4406 Teaching Reading in the Secondary School (3)

The reading curriculum in grades 7 through 12. Reading in the content areas, critical reading, methods and the organization of a developmental reading program, rate of reading, study skills and methods of study.

9753/5:30—8:00 p.m.

Early Childhood Education

E.C. 4210 Guiding Early Childhood Teachers to Work with Children from Minority Cultures (3)

Designed to help qualify teachers for day-care centers, pre-kindergartens or pre-school programs and primary grades. Emphasis on: the special kind of experiences needed by culturally disadvantaged children from urban core, poverty rural or migrant backgrounds; activities that promote creativity, enrichment and motivation for later academic success; problems of personal identification or self-worth and social adaptability; relationships between parents, school specialists and community workers.

9754/5:30—8:00 p.m.

Educational Arts and Systems

E.A.S. 3110 English in the Elementary School (3)

Study of the teaching of literature, linguistics, written expression, cursive and manuscript writing, listening and speaking.

Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

9755/Darkatsh/5:30—8:00 p.m.

E.A.S. 3130 Science in the Elementary School (3)

A study of science content and teaching methodology including student planning, development and presentation of instructional methods and media.

Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

9756/Mitchell/5:30—8:00 p.m.

E.A.S. 3711 Children's Literature in Education (3)

A critical study of children's books and their use in elementary and secondary school classrooms.

Prerequisite: E.A.S. 3110.

9758/Mine/5:30—8:00 p.m.

E.A.S. 4140 Social Studies in the Elementary School (3)

Study of the objectives of elementary school social science, planning techniques, teaching materials, innovative programs and evaluation, emphasizing the interdisciplinary approach.

9759/Costa/5:30—8:00 p.m.

E.P.S. 4070 Social Psychological Issues and the American Teacher (3)

Involvement of prospective teachers and citizens in discussions of major social issues facing the nation from a socio-psychological point of view. Examples are *Academic Freedom and the Teacher* and *Controversial Issues and the Teacher*. Values and attitudes toward such problems questioned, compared and examined for their effect on classroom teaching, the teacher's ego-involvement and interpersonal relationships.

9760/Pitt/5:30—8:00 p.m.

Ed. Psy. 3801 Educational Psychology (3)

An analysis of learning theory and its application. Considers cognition, motivation, tests and measurements.

Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

9762/5:30—8:00 p.m.

Eng. 3510 Aspects of the Novel (3)

Such novelists as Joyce, Gide, Kafka, Lawrence, Hemingway, Faulkner and Woolf, studied in relation to their antecedents in the realistic novel of the 19th century.

9764/Weinstein/5:30—8:00 p.m.

F.A. 3920 Art in Early Childhood Education (3)

Content similar to that of F.A. 3910 but dealing with children of the nursery school age through the third grade. Not intended for Fine Arts majors.

9765/Kahrman/5:30—8:00 p.m.

H.Ed. 2231 First Aid and Accident Prevention (2)

An investigation of accident prevention plus the theory and practice of First Aid as recommended by the American Red Cross. At the successful completion of this course, the student receives an advanced Red Cross first aid certificate.

9766/Mayer/5:00—6:40 p.m.

H.Ed. 4234 Sex Education (3)

An overview of sex and sexuality in today's society, with implications for evolving male-female relationships, dating patterns, marriage and responsible parenthood. Special attention and emphasis given to the role and responsibility of the schools in educating for sexuality.

9768/Rockburne/5:30—8:00 p.m.

Hist. 2303 United States History to 1877 (3)

A comprehensive study of the American people, including the colonial period, the struggle for independence and the national period through Reconstruction.

9770/Buchanan/5:30—8:00 p.m.

L.S. 2000 Introduction to School Library Service (3)

The role of the school library: growth and development as an integral part of the educational process; its current function as an instructional materials center with collections of both book and audio-visual materials. Leadership role of the librarian as an educator and the school librarian's achievement of this position.

9771/5:30—8:00 p.m.

Math 1014 Elementary Number Systems (3)

The postulates of the natural numbers, the integers, and the rational numbers are studied. Elementary set operations and historical numeration systems are also included. For non-mathematics majors.

9772/5:30—8:00 p.m.

Educational Policy Sciences

Educational Psychology

English

Fine Arts

Health Education

History

Library Science

Mathematics

UNDERGRADUATE COURSES AT NEPTUNE
SUMMER SESSION JUNE 25—JULY 13

Music	<p>Mus. 1050 Music Fundamentals (3) Introduction to rudiments of music and notation. Developing understanding of the music language and facility in music reading and aural perception, through class and individual vocal and instrumental practice and written work. This course is designed as preparation for Mus. 2305, 2310, music education courses required of early childhood and elementary education majors. 9774/Spencer/5:30—8:00 p.m.</p> <p>Mus. 2310 Elementary School Music Education (2) Music activities and materials for children in the elementary grades. Direct participation in singing and rhythmic activities, playing and reading music with simple melody instruments, use of the autoharp, rhythm instruments and recordings, use and evaluation of books and materials for music education on the elementary and grade school level. Prerequisite: Mus. 1050 or permission of the instructor. 9775/Broadmeyer/7:00—8:40 p.m.</p>
Philosophy	<p>Phil. 1040 Philosophy (3) A general introduction to the ideas of great philosophers, major schools of thought, and basic issues. Among the topics considered are the meaning of philosophy, reality, knowledge, values and social philosophy. 9777/5:30—8:00 p.m.</p>
Physical Education	<p>P.Ed. 3511 Physical Education in the Elementary School (2) Methods and materials for the elementary school developed through laboratory workshop approach using classrooms, gymnasiums and outdoor play-space situation. Trains classroom teachers for individual leadership or cooperation with specialists. For evening certification students. 9779/5:00—6:40 p.m. 9780/7:00—8:40 p.m.</p>
Psychology	<p>Psy. 3630 Social Psychology (3) The social influences on individual behavior and experience. How the thoughts, feelings, and actions of individuals are influenced by the presence of other persons and by the complex social stimuli which surround them. Prerequisite: Psy. 1000. 9782/5:30—8:00 p.m.</p>
Sociology	<p>Soc. 2100 Sociology of the Family (3) Analysis of sociological factors in marriage and the family in modern society, with cross-cultural comparisons. Prerequisite: sociology or anthropology or permission of instructor. 9784/Faris/5:30—8:00 p.m.</p>
Special Education	<p>Sp. Ed. 3153 Introduction to Curriculum Building for the Mentally Retarded (3) The philosophy and principles of curriculum development and analysis of various approaches. 9785/5:30—8:00 p.m.</p>

All courses meet each morning, Monday through Friday for the first three weeks of summer session only, June 25—July 13. The course listing reads as follows:

Course no. Title (sem. hrs.)

Description of courses

Prerequisite:

ref. no./instructor/time

C.S. 3400 The Teaching of Reading in the Elementary School (3)

A detailed study of a productive reading program from its beginning through the eighth grade. Emphasis is on materials, methods, research results and modern trends.

0751/8:00—10:50 a.m.

C.S. 4402 Reading Disabilities (2)

Adaptation to individual needs is stressed. Attention is focused on the neurological, physical, mental and emotional aspects which may impede learning. Reading problems of individual children are diagnosed and remediated.

Prerequisite: C.S. 4400.

0753/10:00—11:50 a.m.

C.S. 4700 Audio-Visual Media of Instruction (3)

General principles, problems and practices involved in the selection, utilization and evaluation of audio-visual instructional media, materials, resources and experiences. The preparation of teacher-made and student-made audio-visual instruction materials. Practice in the operation and general care of audio-visual equipment. Exposure to newer technologies and learning systems.

0754/Swenson/8:00—10:50 a.m.

E.A.S. 3100 Elementary Curriculum and Methodology (3)

Elementary school objectives, practices, curriculum patterns and planning techniques. Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

0756/Young/8:00—10:50 a.m.

E.A.S. 3120 Mathematics in the Elementary School (3)

Inquiry into the nature of mathematics and its implications for teaching, the use of visual materials in teaching, learning theories as they pertain to mathematics education and current elementary school mathematics programs.

0757/Kavett/10:00 a.m.—12:50 p.m.

E.A.S. 3130 Science in the Elementary School (3)

A study of science content and teaching methodology including student planning, development and presentation of instructional methods and media. Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

0759/Mitchell/8:00—10:50 a.m.

E.A.S. 3710 Teaching English as a Second Language (3)

Analysis of the problems involved in English instruction where English is a second language. Ethnic and linguistic backgrounds of children for whom English is a second language. Accepted by the English department as fulfilling the requirement in language for English majors.

0761/Messerschmitt/10:00 a.m.—12:50 p.m.

E.P.S. 4040 Comparative Education (3)

Education in the United States and in other representative areas of the world compared. Emphasis placed on the foundations of education in their historic, socio-economic, and political setting.

0763/10:00 a.m.—12:50 p.m.

Eng. 3350 Contemporary Literature (3)

American, English and European literature of the twentieth century.

0765/Atlee/10:00 a.m.—12:50 p.m.

Communication Sciences

Educational Arts and Systems

Educational Policy Sciences

English

UNDERGRADUATE COURSES AT BOONTON
INTERSESSION MAY 21 — JUNE 14

Fine Arts	<p>F.A. 3910 Art in Education (3) Understanding the child's natural modes of expression, selection of media to develop this expression, and finding ways of teaching in the elementary school which will increase aesthetic awareness, develop skills, enrich experience, and invite expression. Not intended for Fine Arts majors. 0766/Slotkoff/10:00 a.m. — 12:50 p.m.</p>
Health Education	<p>H.Ed. 3237 The School and Community Health Program (2) The school and community health program, the teacher's role in school and community health services, healthful school environment, and health instruction in the elementary school. 0768/Rockburne/8:00 — 9:50 a.m.</p>
Library Science	<p>L.S. 2010 Fundamentals of Cataloging and Classification (3) Techniques in the organization of materials for ready use are presented with emphasis upon the Dewey Decimal System of Classification. Elementary instruction in the preparation of catalog cards, selection of subject headings, acquisition and use of printed catalog cards, and organization of the card catalog. 0770/Weiss/10:00 a.m. — 12:50 p.m.</p>
Music	<p>Mus. 1000 Music Survey (3) Understanding of music through study of music elements, forms, terms, styles, composers, and representative compositions in class, outside listening and music performance attendance. No prerequisites. 0772/Spencer/10:00 a.m. — 12:50 p.m.</p> <p>Mus. 2305 Early Childhood Music Education (2) Music activities and materials for nursery school, kindergarten, and primary grades. Direct participation in singing and rhythmic activities, playing and reading music with simple melody instruments, use of the autoharp, rhythm instruments and recordings. Prerequisite: Mus. 1050 or permission of the instructor. 0773/Broadmeyer/8:00 — 9:50 a.m.</p>
Physical Education	<p>P.Ed. 3511 Physical Education in the Elementary School (2) Methods and materials for the elementary school developed through laboratory workshop approach using classrooms, gymnasiums and outdoor play-space situation. Trains classroom teachers for individual leadership or cooperation with specialist. For evening certification students. 0775/8:00 — 9:50 a.m.</p> <p>P.Ed. 3621 Play and Rhythm Activities in Early Childhood Education (2) Creative and dramatic activity as it relates to play and rhythmic responses of young children, covers progressions to and presentation of games of low organization and rhythmic activities for the kindergarten and primary teacher with stress on kinds of movement desirable for each group. 0777/10:00 — 11:50 a.m.</p>
Psychology	<p>Psy. 2100 Child Psychology (3) The physical, intellectual, emotional, and social aspects of childhood, including individual differences, the behavior characteristics of various age levels, and the types and methods of adjustment. Prerequisite: Psy. 1000. 0779/8:00 — 10:50 a.m.</p>
Sociology	<p>Soc. 2100 Sociology of the Family (3) Analysis of sociological factors in marriage and the family in modern society, with cross-cultural comparisons. Prerequisite: sociology or anthropology or permission of instructor. 0781/8:00 — 10:05 a.m.</p>

Unless otherwise noted, courses meet every evening, Monday through Thursday. Please check the class time in each course listing. The course listing reads as follows:

Course no. Title (sem. hrs.)

Description of course

Prerequisite:

ref. no./instructor/time

C.S. 4700 Audio-Visual Media of Instruction (3)

General principles, problems and practices involved in the selection, utilization and evaluation of audio-visual instructional media, materials, resources and experiences. The preparation of teacher-made and student-made audio-visual instruction materials. Practice in the operation and general care of audio-visual equipment. Exposure to newer technologies and learning systems.
9701/Mullen/5:00 — 7:30 p.m.

E.A.S. 3110 English in the Elementary School (3)

Study of the teaching of literature, linguistics, written expression, cursive and manuscript writing, listening and speaking.
Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.
9703/Werner/5:00 — 7:30 p.m.

E.A.S. 3120 Mathematics in the Elementary School (3)

Inquiry into the nature of mathematics and its implications for teaching, the use of visual materials in teaching, learning theories as they pertain to mathematics education and current elementary school mathematics programs.
9705/Seitz/7:40 — 10:10 p.m.

E.P.S. 4010 History of Education (3)

Consideration of education as a dynamic institution in the culture of Western Civilization from Greek beginnings to contemporary America. Traced within a total historical context which includes geography, influential leadership and other developmental factors which are often the deep roots of evolution and innovative ideas and practices in an ever-changing society.
9706/Franklin/7:40 — 10:10 p.m.

F.A. 3740 Modern Art (3)

Important works from the late nineteenth and twentieth centuries in Europe and the United States. Origin and evolution of major artistic developments of the modern world.
9707/Burger/9:00 — 11:30 a.m.

H.Ed. 1100 Healthful Living (2)

A background of scientifically accurate health information, realistic criticism of various panaceas, and emphasis on positive health through planning and practicing a wholesome program of living. The course furnishes experiences for the student to find out about himself and his health needs and to act accordingly.
9708/Festa/5:50 — 7:30 p.m.

H.Ed. 4333 Alcohol and Narcotics Education (2)

A comprehensive course dealing with alcoholic beverages, narcotics, and other addicting and habit-forming drugs, and the effect of their usage upon the individual and society.
9709/Festa/7:40 — 9:20 p.m.

Communication Sciences

Educational Arts and Systems

Educational Policy Sciences

Fine Arts

Health Education

UNDERGRADUATE COURSES AT BOONTON
SUMMER SESSION JUNE 25—AUGUST 3

Physical Education	<p>P.Ed. 3511 Physical Education in the Elementary School (2) Methods and materials for the elementary school developed through laboratory workshop approach using classrooms, gymnasiums and outdoor play-space situation. Trains classroom teachers for individual leadership or cooperation with specialist. For evening certification students. 9710/5:50—7:30 p.m.</p>
Psychology	<p>Psy. 1000 General Psychology (3) An introduction to the study of human behavior and a foundation for later specialization in psychology. Perception and sensation, cognition, learning, motivation, intelligence, and personality. 9712/12:15—2:45 p.m.</p>
Special Education	<p>Sp. Ed. 3153 Introduction to Curriculum Building for the Mentally Retarded (3) The philosophy and principles of curriculum development and analysis of various approaches. 9713/Cass/5:00—7:30 p.m.</p>

Courses meet each morning, Monday through Friday.
†Indicates courses which run for the first three weeks of summer session only, June 25—July 13.

‡Indicates courses which run the second three weeks of summer session, July 16—August 3.

Please check the class time in each course listing. The course listing reads as follows:

Course no. Title (sem. hrs.)
Description of course
Prerequisite:
ref. no./instructor/time

C.S. 3400 The Teaching of Reading in the Elementary School (3)
A detailed study of a productive reading program from its beginning through the eighth grade. Emphasis is on materials, methods, research results and modern trends.

‡0701/9:00—11:50 a.m.

E.A.S. 3100 Elementary Curriculum and Methodology (3)
Elementary school objectives, practices, curriculum patterns and planning techniques. Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

‡0703/A. Resnick/9:00—11:50 a.m.

E.A.S. 3130 Science in the Elementary School (3)
A study of science content and teaching methodology including student planning, development and presentation of instructional methods and media. Corequisites: E.A.S. 3100, 3110, 3130, 3900, C.S. 3400 and Ed. Psy. 3801 must be taken concurrently by day college elementary education majors.

†0704/Bongiorno/9:00—11:50 a.m.

E.A.S. 3711 Children's Literature in Education (3)
A critical study of children's books and their use in elementary and secondary school classrooms. Prerequisite: E.A.S. 3110.

†0706/Ramos/9:00—11:50 a.m.

P.Ed. 3511 Physical Education in the Elementary School (2)
Methods and materials for the elementary school developed through laboratory workshop approach using classrooms, gymnasiums and outdoor play-space situation. Trains classroom teachers for individual leadership or cooperation with specialist. For evening certification students.

†0707/9:00—10:50 a.m.

Sp. Ed. 4151 Introduction to Arts and Crafts for Mentally Retarded (3)
Meaningful and interesting manual activities for sequential skill development. Projects are with wood, leather, plastics, metal, ceramics, basketry, cardboard and weaving.

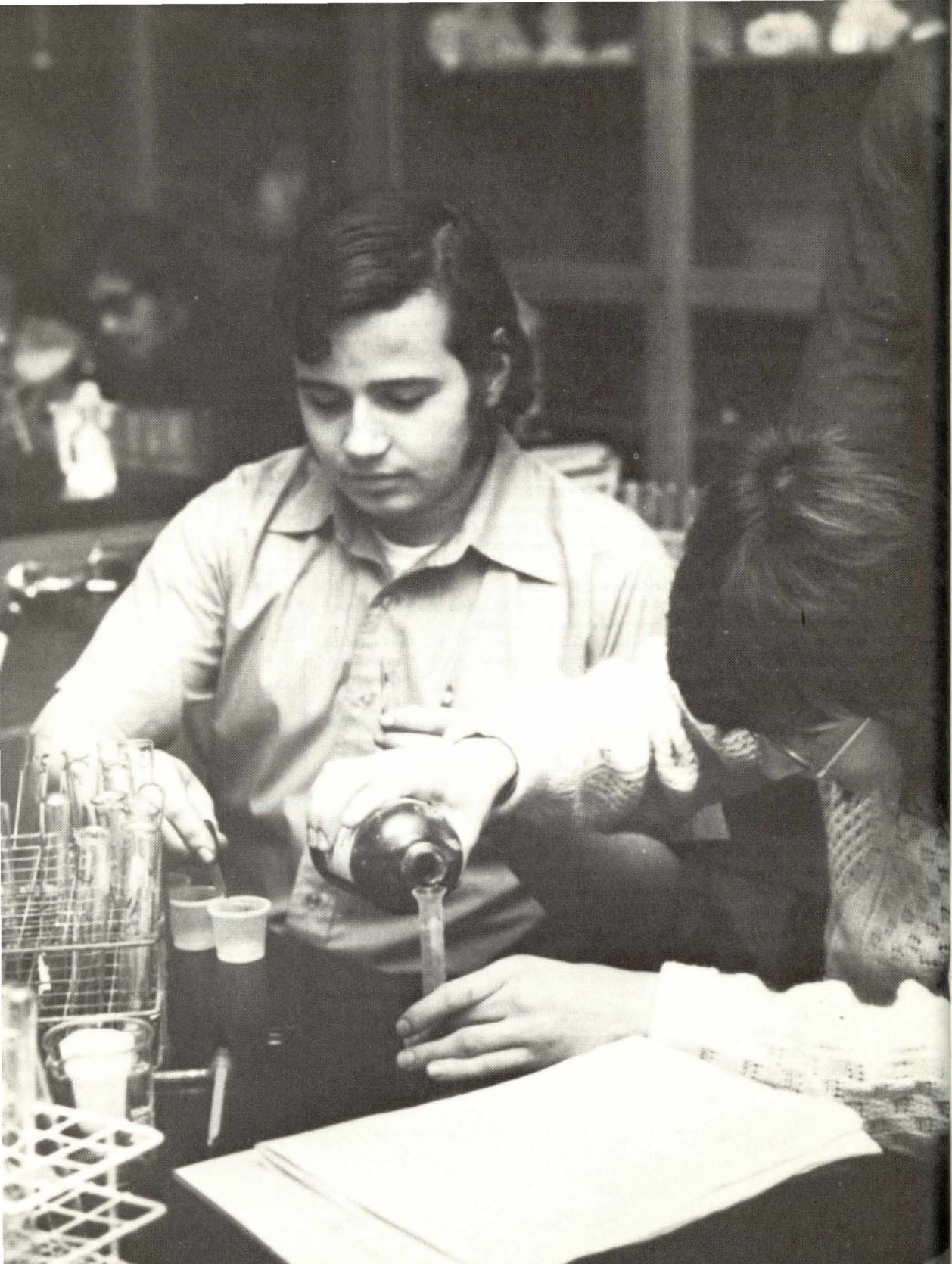
‡0709/Cass/9:00—11:50 a.m.

Communication Sciences

Educational Arts and Systems

Physical Education

Special Education



General Information

TUITION, FEES AND FINANCIAL AID

Tuition and all college fees, expenses and refund policies are established by the New Jersey Board of Higher Education and are subject to change by the Board. Payment is made at the time of registration with checks drawn to "Newark State College."

TUITION *per semester hour*

UNDERGRADUATE STUDENT: NEW JERSEY RESIDENT	\$20.00
UNDERGRADUATE STUDENT: NON-RESIDENT	40.00
GRADUATE STUDENT: NEW JERSEY RESIDENT	35.00
GRADUATE STUDENT: NON-RESIDENT	45.00

FEES

REGISTRATION	2.00
Required at each registration and non-refundable	
LATE REGISTRATION	5.00
CHANGE OF COURSE	5.00
CAMPUS PARKING FEE	4.00
September through Intersession	
CAMPUS PARKING FEE	4.00
Summer School	
TRANSCRIPTS	1.00
Obtained through Academic Administrative Services.	

REFUND OF TUITION

Students who withdraw from a course may be granted a refund of tuition and certain other fees on the following basis:

Withdrawal before session begins	90%
Withdrawal during first third of session	50%
No refund thereafter	

Tuition is refunded in full if classes are discontinued by the authorities at the college.

FINANCIAL AID

Information on grants, loans and part-time employment is available in the Financial Aid Office, room T111; telephone: (201) 527-2050.

REGISTRATION SCHEDULE 1973

Advance Registration will be held March 28 to April 4 for all students on matriculated status and students in non-degree programs.

Intersession

UNION CAMPUS

May 5	8:30 a.m.-12 noon	Matriculated students and students with degrees
May 12	8:30 a.m.-12 noon	All other students
May 21	4:00 p.m.-5:30 p.m.	Late registration

BOONTON TOWNSHIP

May 11	4:00 p.m.-5:30 p.m.	
May 16	1:30 p.m.-4:00 p.m.	
May 17	3:30 p.m.-7:30 p.m.	
May 21	4:00 p.m.-5:30 p.m.	Late registration

NEPTUNE CENTER

May 9	4:00 p.m.-5:30 p.m.	
May 21	4:00 p.m.-5:30 p.m.	Late registration

Summer Session

UNION CAMPUS

June 8	3:30 p.m.-5:30 p.m.	Matriculated students and students with degrees
June 15	3:30 p.m.-5:30 p.m.	All other students
June 22	3:30 p.m.-4:30 p.m.	Late registration

BOONTON TOWNSHIP

June 13	4:00 p.m.-5:30 p.m.	
June 20	10:00 a.m.-12:30 p.m.	
June 21	10:00 a.m.-12:30 p.m.	
June 25	10:00 a.m.-12:30 p.m.	Late registration

NEPTUNE CENTER

June 6	4:00 p.m.-5:30 p.m.	
June 25	8:00 a.m.-9:00 a.m.	Late registration

The College makes every effort to maintain the schedule of courses as announced. However, the right is reserved to withdraw courses, change instructors or change the schedule of classes at any time without previous announcement.

Classification of Summer Session Students

Graduate and undergraduate students enrolled in the Summer Session of Newark State College at Union are classified as follows:

Matriculated students — those who have completed all college entrance requirements and are enrolled in a degree program at the College.

Prematriculated — those who are following a prescribed program leading to matriculation.

Non-matriculated students — those who are not candidates for a degree at Newark State.

Class Attendance

Class attendance is optional for all students, subject to the following limitations:

Students are obligated to be present for announced quizzes and examinations. Students who are absent from announced quizzes and/or examinations without substantial excuse (as determined by the professor) shall be subject to failure;

Absence from laboratory or studio sessions shall be by prior agreement with the instructor.

Students are reminded that absence from class neither relieves them of responsibility for course requirements nor absolves them from mastering the subject matter dealt with in class.

Grading

The academic standing of a student in every subject is reported at the end of each semester by a letter grade.

Credit is granted for the following:

- A — Excellent
- B — Good
- C — Fair
- D — Poor
- P — Passing

No credit is granted for the following:

- F — Failure
- Inc — Incomplete Work
- WD — Withdrawn

Incomplete A grade of "incomplete" may be reported for a student who has carried a course with a passing grade until the end of the semester and then because of illness or other unusual and substantiated cause has been unable to take or complete the final examination or to complete some limited amount of assigned work. An "Incomplete" must be removed by the last day of the semester following that during which it was reported. Any "Incomplete" not removed at the end of this period automatically becomes an "F."

Withdrawal A student who withdraws from a course must give written notice to the Office of Academic Administrative Services before the last third of the course. Students who neglect to follow this procedure will receive a failing mark for the course or courses which they cease to attend. In computing refunds, the date of withdrawal is the date on which the college received a written notice from the student.

Certification

Newark State College at Union offers the following certification programs:

- Nursery Education
- Elementary Education
- Subject Certificate: English, Fine Arts, Foreign Language, Industrial Education, Mathematics, Music, Science, Social Studies, Special Education, Teacher-Librarian

The preceding programs are designed for persons who already hold degrees, with the exception of I.E. in which certification may be based on work experience. All other students, who have no degrees, must be certified through degree programs.

Students in the following categories should consult their county superintendents of schools for official evaluation of their college credits:

those who have completed a state-approved teacher education program;

those with at least one year of successful teaching experience under an appropriate certificate in another state, or with three years teaching experience in New Jersey;

those being offered employment in a New Jersey public school upon request from a superintendent of schools.

Contact: Certification Office T-118; tel. 201-527-2240.

Supervised Teaching Seminar

All applications for the Supervised Teaching Seminar must be approved by the coordinator of the seminar. Because sections close as soon as quotas for the respective groups have been met, students are advised to apply for the seminar immediately after signing a teaching contract.

The office is located in T-114, tel. 201-527-2164.

Academic and Career Planning and Placement

Students desiring professional assistance regarding their programs of studies or placement should consult the Office of Academic and Career Planning and Placement. Office T-119 is open from 8:30 a.m. to 8:00 p.m. Monday, Tuesday, and Thursday and from 8:30 a.m. to 4:00 p.m. Wednesday and Friday. The telephone number is 527-2030. Part-time and undergraduate summer employment is arranged in the Office of Financial Aid.

College Level Examination Program

CLEP general examinations and subject examinations are given on the third Saturday of each month.

The College Level Examination Program was designed by the Educational Testing Service to test and recognize the knowledge gained by non-traditional ways. Newark State College at Union will accept up to 30 credits for the general examinations when a score in the twenty-fifth percentile or better is earned. Up to 15 credits will be accepted from the subject examinations with scores in the fiftieth percentile. Matriculated Newark State College students will be charged a \$5.00 per course recording fee in order to have credit posted on transcripts. Information booklets and registration forms are available in T-114.

Accreditation and Affiliation

Newark State College at Union is accredited by the Middle States Association of Colleges and Secondary Schools and many of its programs are approved by the National Council for Accreditation of Teacher Education. The College is licensed by the New Jersey State Department of Higher Education and retains memberships and affiliations which include the following:

National Commission on Accrediting
American Association of State Colleges and Universities
American Association of Colleges for Teacher Education
New Jersey Association of Colleges and Universities
American Association of University Women (corporate)
American Council on Education
College Entrance Examination Board
National School Public Relations Association
Association of College Registrars and Admissions Officers
Association for Field Services in Teacher Education
Association of University and Evening Colleges
Association for Institutional Research
American College Public Relations Association
World Future Society

Academic Studies

Newark State College at Union offers instruction in the following academic areas. Separate undergraduate and graduate catalogs are published in which information on curricula, admissions and fees is fully detailed.

GRADUATE STUDIES

Administration and Supervision
Audiology and Communications Science
Early Childhood Education
Education and the Behavioral Sciences
Education and Contemporary Civilization
Education and the Humanities
Elementary Education — Advanced Specialization
Fine Arts Education
Learning Disabilities Specialist (Certification Program)
Mathematics Education
Reading Specialization
School Psychology (Professional Diploma)
Secondary Education
Speech Pathology
Teaching the Emotionally Disturbed and Socially Maladjusted
Teaching the Mentally Retarded
Student Personnel Services (Guidance and Counseling or School Social Work)

UNDERGRADUATE STUDIES

School of Arts and Sciences

Afro-American Studies
Art History
Biology
Chemistry
Earth and Planetary Environments
Economics
English
Fine Arts
Foreign Languages
Future Studies
Geography
History
Management Science
Mathematics
Medical Technology
Music
Philosophy
Physics
Political Science
Psychology
Public Administration
Sociology
Social Work
Speech-Theatre-Media Studies
Urban Studies
Visual Communications

School of Education

Bilingual Education
Early Childhood Education
Elementary Education
Health and Physical Education
Industrial Studies
Industrial Technology
Library Science
Reading
Secondary Education
Speech and Hearing
Teacher of the Handicapped

Veterans Benefits

Newark State College at Union is approved for the training of veterans. Prior to registration, the veterans should contact the Regional Office of the Veterans Administration at 20 Washington Place, Newark, 07102, and obtain a Certificate of Eligibility. Veterans complete the registration procedure followed by all students. In addition, they notify the Veterans' Advisor of their attendance by completing the Enrollment Verification Form.

VETERANS IDENTITY PROGRAM The program offers entrance to college programs at five levels tailored to individual needs, including attendance in either day or evening classes. It includes college-level, refresher, and tutorial programs in communications and mathematics. Veterans enrolled in the full program will be eligible for educational benefits offered under the existing G.I. Bill.

For an application or further information concerning the Veterans Identity Program, contact: Coordinator, Veterans Identity Program, T-117, telephone: (201) 527-2030; or Director of Admissions, (201) 527-2195.

A GUIDE TO SUMMER ACTIVITIES, FACILITIES AND SERVICES



Activities

A summer recreation program of films, lectures, concerts and athletic events is planned. A calendar of events will be available.

Summer students have access to the swimming pool, tennis courts, gymnasium and other outdoor facilities with the permission of the Director of Athletics.

Morning informals are scheduled on Wednesdays from 9:15 to 9:45 a.m. on the Library terrace. Refreshments will be served.

Bookstore

The Bookstore, located in the Student Services Building, stocks a complete selection of required texts for all courses. In addition, there is a large collection of paper-bound books, jewelry, stationery and novelties.

For the first two evenings of the summer session, June 5 and June 6, the bookstore will be open from 9:00 a.m.-8:00 p.m.; otherwise, the hours are as follows:

INTERSESSION

May 21 and May 22 — 9:00 a.m.-8:00 p.m.

May 23 through June 14 — Monday through Thursday, 9:00 a.m.-7:30 p.m.; Fridays 9:00 a.m.-5:00 p.m.

SUMMER SESSION

Monday, 9:00 a.m.-7:30 p.m.

Tuesday through Friday, 9:00 a.m.-5:00 p.m.

College Cafeteria

The College cafeteria, which is located in Downs Hall, serves breakfast and lunch to students, faculty and College employees. A wide variety of salads, sandwiches, hot meals, and foods from the grill are available from 9:00 a.m. to 1:30 p.m.

Nancy Thompson Library

The facilities of the Library include 700 seating stations from conference rooms to individual and research study carrels, Curriculum Materials Room, Audio Visual Services, extensive book collections, periodicals and microfilm. Library hours are as follows:

INTERSESSION

Monday through Thursday, 8:00 a.m.-10:00 p.m.

Fridays, 8:00 a.m.-4:00 p.m.

SUMMER SESSION

Monday through Thursday, 8:00 a.m.-10:00 p.m.

Fridays, 8:00 a.m.-4:00 p.m.

Counseling Center

The Counseling Center, located in Room 143 of the College Center, provides a broad range of psychological services including individual consultation, vocational and personality testing, and group interactional experience. The services are designed to facilitate personal growth and development and to assist students in coping with emotional pressures and dysfunction.

All consultation is completely confidential with no information ever leaving the Center except by request or consent of the student.

The professional staff consists of four Psychologists and a Consultant Psychiatrist who are available for consultation by appointment or on a walk-in basis. Advance appointments may be made by calling 527-2082.

From June through August the Center is open from 8:30 a.m.-4:30 p.m. Monday through Friday.

Health Services

All Newark State students are invited to seek the assistance of the College Health Service whenever the need arises. Administered by the college physicians and nurses, these services include medical care and first aid.

Hours are Monday through Thursday, 8:00 a.m. to 6:00 p.m., Fridays, 8:00 a.m. to 5:00 p.m.

Location: Student Services Building, telephone 527-2047.

Students requiring special services due to temporary or permanent physical handicaps may apply to Health Services for elevator keys and special parking permits. Ramps are situated at the entrance of all buildings to accommodate students confined to wheelchairs.

Parking

All cars operated or parked on college property must have parking permits.

Students may purchase parking permits at the time of registration. After the registration period, permits may be obtained at the Parking Office, Office of the Director of Facilities, Maintenance Warehouse Building, between the hours of 8:00 a.m. and 4:00 p.m. The fee for part-time students is \$4.00 for the school year September-June 30 including Intersession. Fee for the Summer Session is \$4.00.

The college assumes no responsibility for the car or its contents while it is parked on college property.

Faculty parking lots are designated by yellow lines or posted signs. Students are not allowed to park in these areas.

During the first two weeks of classes, the Parking Office will remain open until 7:30 p.m., Monday through Friday. Parking decals may be purchased during this time.



NEWARK STATE COLLEGE AT UNION CAMPUS AND LOCATION

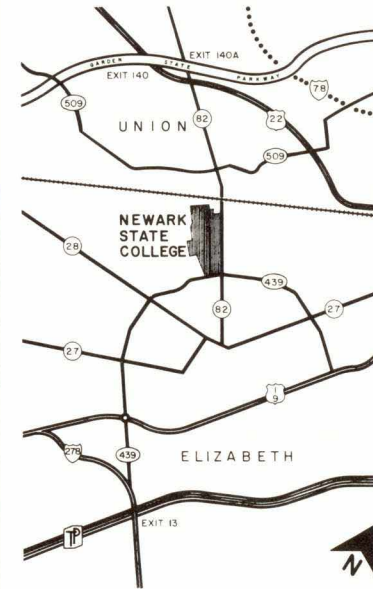
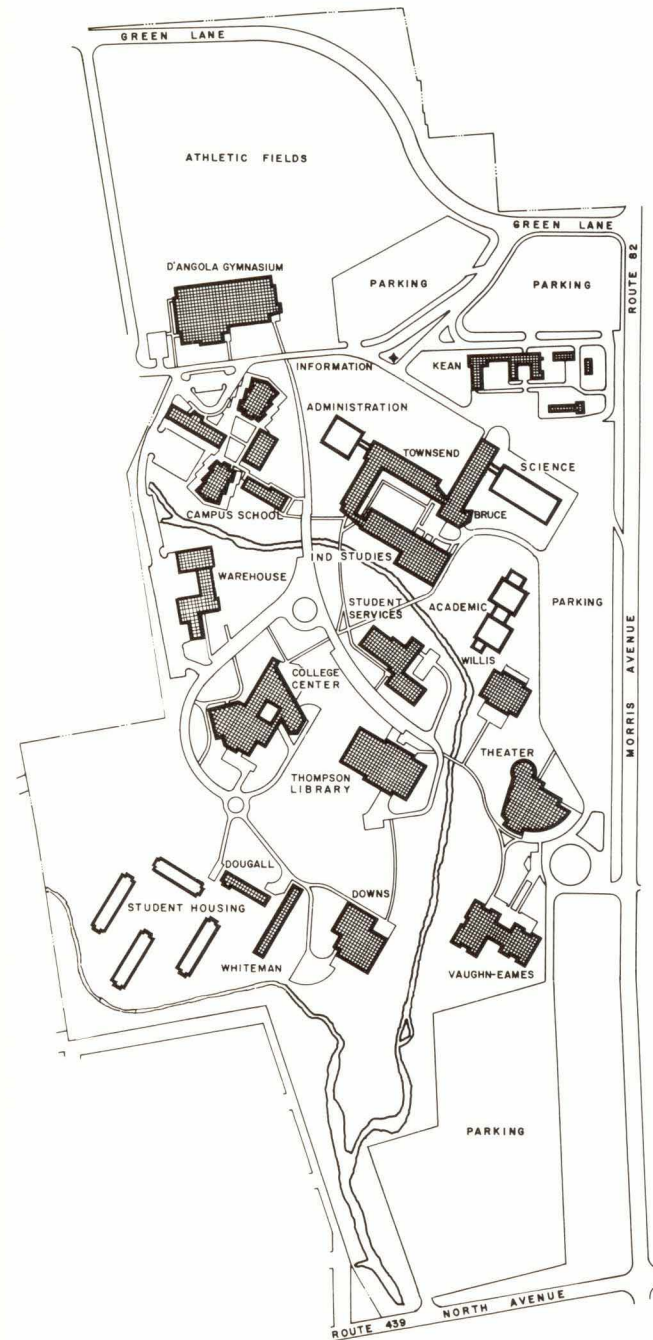
Special Education Instructional Materials Center

S.E.I.M.C. is a resource center for special educators. As a part of the National Network of Special Education Instructional Material Centers-Regional Media Centers for the Deaf, the purpose of S.E.I.M.C. is to provide special educators and related personnel with ready access to valid instructional materials and information related to the education of exceptional children.

Materials circulate to teachers, parents and students in New Jersey. Materials may be borrowed for a two week period. Material demonstrations and workshops are available upon request. S.E.I.M.C. is located in the Nancy Thompson Library. (Tel. 201-527-2225)

Camp Union

Camp Union for Brain Injured Children is a special education day camp program conducted at the Union Campus this summer. Students are invited to observe.



The Union Campus lies at the crossroads of New Jersey, with the Garden State Parkway, the New Jersey Turnpike, Routes 1-9 and Route 22 just minutes away. The College's 120-acre wooded campus is situated on the southwest side of Morris Avenue (Route 82) in Union on the Elizabeth city line.

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