

regional campuses



1964-65



INDIANA UNIVERSITY

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## OFFICERS AND FACULTY OF THE REGIONAL CAMPUSES

- LLOYD ROBERT AHLF, Assistant Professor of Accounting (Northwest Campus).  
B.S., Indiana University, 1942; M.S., 1943; C.P.A., 1949.
- ALLAN JOSEPH ALLEN, Resident Lecturer in Philosophy (Kokomo Campus).  
A.B., University of Missouri, 1956; A.M., Boston College, 1960.
- RICHARD F. ALLEN, Assistant Professor of Spanish (South Bend-Mishawaka Campus).  
A.B., University of Oklahoma, 1956; A.M., University of Maryland, 1958; Ph.D., 1961.
- CLAYTON WALTER ANDERSON, Instructor in Business (Northwest Campus).  
B.S., DePaul University, 1947; M.S. in Ed., Indiana University, 1950; M.B.A., University of Chicago, 1954; C.P.A., 1956.
- ROBERT GEORGE ANDERSON III, Resident Lecturer in Sociology (Northwest Campus).  
A.B., University of Hawaii, 1956; A.M., Indiana University, 1961.
- ALLEN CLETUS AUSTIN, Associate Professor of English (Northwest Campus).  
A.B., Wayne State University, 1944; A.M., Columbia University, 1950; Ph.D., New York University, 1955.
- JOHN EDWIN BALES, Assistant Professor of Accounting (Fort Wayne Campus).  
B.S., Indiana University, 1960; M.B.A., 1961.
- RALPH CLAYTON BAXTER, Resident Lecturer in English (Northwest Campus).  
A.B., University of Detroit, 1958; A.M., Wayne State University, 1959.
- VICTOR MORTON BOGLE, Director of the Kokomo Campus of Indiana University, Assistant Dean of the Division of University Extension, and Assistant Professor of History (Kokomo Campus).  
A.B., Indiana Central College, 1947; A.M., University of Illinois, 1948; Ph.D., Boston University, 1951.
- JAMES CURT BOHLING, Librarian (Fort Wayne Campus).  
A.B., Southwest Missouri State College, 1960; M.S., University of Illinois, 1962.
- SYLVIA EDMONIA BOWMAN, Professor of English (Fort Wayne Campus) (on leave of absence, second semester, 1963-64).  
B.S., Central Normal College, 1939; A.M., University of Chicago, 1943; Docteur de l'Université de Paris, 1952.
- GEORGE ROBERT BRAMER, Resident Lecturer in English (South Bend-Mishawaka Campus).  
A.B., Drury College, 1954; A.M., University of Notre Dame, 1958.
- PATRICK AUGUSTINE BRANNIGAN, Assistant Professor of English (Indianapolis Downtown Campus).  
B.S., Columbia University, 1942; A.M., 1946.
- WALTER FRANCIS BROWN, Assistant Professor of English (Northwest Campus).  
A.B., Indiana University, 1931; A.M., 1940.
- RALPH EDWARD BROYLES, Director of the Fort Wayne Campus of Indiana University, Assistant Dean of the Division of University Extension, and Associate Professor of Chemistry (Fort Wayne Campus).  
A.B., Indiana University, 1932; A.M., 1933; Ph.D., 1942.
- JOHN COLIN BUHNER, Director of Academic Administration of the Northwest Campus of Indiana University, Assistant Dean of the Division of University Extension, and Assistant Professor of Government (Northwest Campus).  
A.B., Franklin College of Indiana, 1942; A.M., Indiana University, 1949; Ph.D., 1963.
- HAROLD ELRA BURNS, Administrator of Studies and Planning for the Northwest Campus of Indiana University, Assistant Dean of the Division of University Extension, and Assistant Professor of Mathematics (Northwest Campus).  
A.B., Oakland City College, 1930; A.M., Indiana University, 1932; Ph.D., Northwestern University, 1942.
- RICHARD EDWARD CARNEY, Assistant Professor of Psychology (Northwest Campus) (to August 31, 1964).  
B.S., University of Washington, 1954; M.S., 1956; Ph.D., University of Michigan, 1961.
- JOHN ALBERT CASSIDY, Associate Professor of English (South Bend-Mishawaka Campus).  
A.B., Westminster College (Pa.), 1930; A.M., Western Reserve University, 1947; Ph.D., 1950.
- FEDOR IVAN CIGAK, Resident Lecturer in Government (Northwest Campus).  
Jur.D., University of Zagreb (Yugoslavia), 1940; A.M., Indiana University, 1956.

- KENNETH WENDELL CLARKE, Assistant Director of the Southeastern Campus of Indiana University, and Associate Professor of English (Southeastern Campus).  
A.B., Washington State University, 1948; A.M., 1949; Ph.D., Indiana University, 1958.
- EUGENE WESTON CLOWER, Assistant Professor of Chemistry (Northwest Campus).  
B.S., Shurtleff College (Ill.), 1940; M.S., Bradley University, 1951; Ph.D., University of Illinois, 1954.
- DAVID LEE COKER, Counseling Psychologist (Indianapolis Downtown Campus) (to June 30, 1964).  
B.S., Western Illinois University, 1959; A.M., State University of Iowa, 1961.
- MARGARET ANNE COOK, Assistant Professor of French and Spanish (Indianapolis Downtown Campus).  
A.B., DePauw University, 1923; A.M., Middlebury College, 1928.
- MARGARET LOUISE DAUNER, Associate Professor of English (Indianapolis Downtown Campus).  
A.B., Butler University, 1936; A.M., 1941; Ph.D., State University of Iowa, 1944.
- BURCHARD ROSSWELL DAVIDSON, JR., Assistant Professor of Government (Kokomo Campus).  
A.B., Indiana University, 1942; M.S., Syracuse University, 1943; J.D., Indiana University, 1949.
- (Mrs.) NANCY ROBERTSON DAVILA, Librarian (Southeastern Campus).  
A.B., Indiana University, 1959; A.M., 1963.
- MALCOLM MacEWAN DAY, Resident Lecturer in English (South Bend-Mishawaka Campus).  
A.B., University of Florida, 1953; A.M., 1958.
- (Mrs.) LOLA JANE ROSENBERGER PEREZ DE LARA, Assistant Professor of French and Spanish (South Bend-Mishawaka Campus).  
A.B., Indiana University, 1926; A.M., Middlebury College, 1939.
- JACK J. DETZLER, Director of the South Bend-Mishawaka Campus of Indiana University, Assistant Dean of the Division of University Extension (to June 30, 1964), and Assistant Professor of History (South Bend-Mishawaka Campus).  
A.B., Indiana University, 1943; A.M., University of Wisconsin, 1946; Ph.D., Indiana University, 1952.
- THOMAS HENRY DONOHUE, Assistant Counselor (South Bend-Mishawaka Campus).  
A.B., University of Notre Dame, 1955; A.M., 1957.
- CHALMER FREDERICK DUNN, Assistant Professor of Accounting (Northwest Campus).  
B.S., Central Normal College, 1939; C.P.A., 1949; M.B.A., Indiana University, 1952.
- KURT ROBERT DURIG, Resident Lecturer in Sociology (Southeastern Campus).  
A.B., San Francisco State College, 1960; A.M., 1961.
- JAMES WILLIAM DYSON, Resident Lecturer in Government (Southeastern Campus).  
A.B., University of Rhode Island, 1959; M.P.A., New York University, 1961.
- THELBURN LeROY ENGLE, Professor of Psychology (Fort Wayne Campus).  
A.B., Butler University, 1922; A.M., Northwestern University, 1924; Ph.D., Indiana University, 1937.
- DONALD THEODORE FAIGLE, Resident Lecturer in Sociology (Southeastern Campus) (to August 31, 1964).  
A.B., University of Cincinnati, 1951; A.M., Indiana University, 1956.
- HERMAN FELDMAN, Assistant Professor of Psychology (Northwest Campus).  
A.B., New York University, 1950; Ph.D., University of Nebraska, 1955.
- HARLAN EDWARD FIEHLER, Assistant Professor of Chemistry (Fort Wayne Campus).  
B.S. in Ed., Southeast Missouri State College, 1950; Ph.D., University of Missouri, 1959.
- ROBERT GENE FOOR, Assistant Professor of Speech and Theatre (Northwest Campus).  
A.B., Indiana University, 1948; A.M., 1953.
- CHARLES PAUL FRANK, Resident Lecturer in English (Fort Wayne Campus).  
B.S., University of Wisconsin, 1957; A.M., University of Michigan, 1958.
- BERNARD FRIEDMAN, Assistant Professor of History (Indianapolis Downtown Campus).  
B.S., City College, The City University of New York, 1950; A.M., Indiana University, 1951; Ph.D., 1959.
- ROBERT EDWARD FRYE, Assistant Professor of Philosophy (Indianapolis Downtown Campus).  
A.B., Indiana University, 1949; A.M., 1953; Ph.D., 1956.



- (Mrs.) MARGARET MARY SHEPHERD GAINES, Resident Lecturer in English (Northwest Campus).  
A.B., University of London (England), 1956; A.M., University of Chicago, 1961.
- JOSEPH EUGENE GALLAGHER, Instructor in English (South Bend-Mishawaka Campus) (to August 31, 1964).  
A.B., St. Michael's College (Vt.), 1959; Ph.D., University of Notre Dame, 1962.
- (Mrs.) LORAZE BRACKETT GARAFOLO, Resident Lecturer in Mathematics (Indianapolis Downtown Campus).  
A.B., Evansville College, 1937; A.M., Indiana University, 1945.
- ERNEST HUGH GERKIN, Associate Professor of Chemistry and Physics (South Bend-Mishawaka Campus).  
A.B., Indiana University, 1922; A.M., 1932; Ph.D., 1937.
- CHARLES BANCROFT GOODRICH, Resident Lecturer in English (Northwest Campus).  
A.B., Trinity College (Conn.), 1941; A.M., New York University, 1948.
- WILBUR CLARK GORHAM, Professor of Zoology (Fort Wayne Campus).  
A.B., University of Illinois, 1922; A.M., Columbia University, 1925; Ph.D., University of Michigan, 1931.
- JOSEPH G. GREEN, Resident Lecturer in Speech and Theatre (South Bend-Mishawaka Campus).  
A.B., Temple University, 1956; A.M., Indiana University, 1959.
- ROBERT WILLIAM GREENLEAF, Assistant Professor of Business (Indianapolis Downtown Campus).  
B.S., New York University, 1943; A.M., Indiana University, 1957; D.B.A., 1961.
- CHARLES THOMAS GREGORY, Resident Lecturer in English (Fort Wayne Campus).  
A.B., University of Notre Dame, 1957; A.M., Columbia University, 1958.
- GERALD OTIS HAFNER, Assistant Professor of History (Southeastern Campus).  
B.S., Central Normal College, 1940; A.M., Indiana University, 1947; Ph.D., 1952.
- PETER VANCE HANFORD, Assistant Professor of Psychology (Indianapolis Downtown Campus).  
B.S., Pennsylvania State University, 1952; M.S., 1953; Ph.D., 1958.
- BILLY JOE HARBIN, Resident Lecturer in Speech and Theatre (Southeastern Campus).  
A.B., Indiana University, 1958; A.M., 1963.
- PHILIP RAY HEADINGS, Associate Professor of English (Fort Wayne Campus).  
B.S., Indiana University, 1950; Ph.D., 1958.
- (Mrs.) GERTRUDE KAISER HEBERLEIN, Director of Programmed Studies in English, and Assistant Professor of English (Indianapolis Downtown Campus).  
A.B., Indiana University, 1931; A.M., 1942.
- THOMAS VERNAL HEDGES, Resident Lecturer in Accounting (Southeastern Campus).  
B.S., Southern Illinois University, 1957; M.S., 1960.
- ROBERT DEWITT HENNON, Academic Counselor, and Resident Lecturer in Speech and Theatre (Kokomo Campus).  
A.B., Indiana University, 1953; M.A.T., 1954.
- WILLIAM HERED, Associate Professor of Chemistry (Northwest Campus).  
B.S., University of Chicago, 1936; Ph.D., 1939.
- PAUL EDWARD HERR, Resident Lecturer in English (Northwest Campus).  
A.B., University of Southern California, 1947; A.M., 1948.
- GEORGE KUEMMET HESSLINK, Resident Lecturer in Sociology (South Bend-Mishawaka Campus).  
A.B., Northwestern University, 1961; A.M., University of Chicago, 1963.
- (Mrs.) ROMOLA LATCHEM HICKS, Assistant Professor of Speech and Theatre (Northwest Campus) (to January 31, 1964).  
A.B., State University of Iowa, 1919; A.M., 1925.
- WILLIAM BRIAN HILL, Assistant Professor of Chemistry (Southeastern Campus).  
A.B., DePauw University, 1954; Ph.D., University of Illinois, 1958.
- ANITA LILLIAN HUGHES, Assistant Counselor (Northwest Campus).  
B.S., Indiana University, 1959; M.S., 1961.

- JAMES WALKER HUGHES, Resident Lecturer in Sociology (Indianapolis Downtown Campus).  
B.S., Temple University, 1940; M.Ed., 1941.
- JOSEPH WALTER HUNT, JR., Resident Lecturer in Economics (Southeastern Campus).  
A.B., Pennsylvania State University, 1959; A.M., 1961.
- VIRGIL HUNT, Director of the Indianapolis Downtown Campus of Indiana University, Assistant Dean of the Division of University Extension, and Assistant Professor (Indianapolis Downtown Campus).  
A.B., Indiana University, 1932; A.M., 1933.
- JAMES RIGGINS HURT, Resident Lecturer in English (Kokomo Campus).  
A.B., University of Kentucky, 1956; A.M., 1957.
- JAMES GLENN HUTCHINSON, Resident Lecturer in Sociology (Northwest Campus) (to August 31, 1964).  
A.B., Emory University, 1936; A.M., University of North Carolina, 1939.
- E. ORVILLE JOHNSON, Director of the Eastern Indiana Center of Earlham College and Indiana University (Division of University Extension).  
A.B., Earlham College, 1933; A.M., University of Michigan, 1937; Ph.D., 1957.
- RUE CORBETT JOHNSON, Resident Lecturer in Speech and Theatre (Fort Wayne Campus).  
A.B., Brigham Young University, 1953; A.M., 1954.
- WILLIAM ALTEN JONES, Academic Counselor, and Assistant Professor of Education (Indianapolis Downtown Campus).  
B.P.S.M., Indiana University, 1943; M.S., 1947; Ed.D., 1955.
- JOSEPH RAYMOND KELLER, JR., Assistant Professor of English (Indianapolis Downtown Campus).  
A.B., Syracuse University, 1947; A.M., 1948; Ph.D., Columbia University, 1958.
- LAWRENCE CHARLES KELLY, Assistant Professor of History (Fort Wayne Campus).  
B.S., Marquette University, 1954; A.M., 1959; Ph.D., University of New Mexico, 1961.
- ROBERT VOSS KIRCH, Associate Professor of Government (Indianapolis Downtown Campus) (on leave of absence, 1963-64).  
A.B., Indiana University, 1948; A.M., 1949; Ph.D., 1955.
- FRANCES CATHERINE KRAUSKOPF, Assistant Professor of History (South Bend-Mishawaka Campus).  
A.B., Indiana University, 1947; A.M., 1949; Ph.D., 1953.
- LEVI MCKINLEY KRUEGER, Assistant Professor of Psychology and Education (Indianapolis Downtown Campus).  
A.B., Wabash College, 1920; A.M., Indiana University, 1930; Ph.D., 1933.
- JOHN DOUGLAS LABARR, Resident Lecturer in Chemistry (Northwest Campus).  
B.S., University of Chicago, 1961; M.S., 1962.
- BYRON FRANKLIN LAIRD, Director of the Southeastern Campus of Indiana University, Assistant Dean of the Division of University Extension, and Associate Professor of Education (Southeastern Campus).  
A.B., DePauw University, 1930; A.M., University of Illinois, 1936; Ed.D., Indiana University, 1954.
- (Mrs.) RUTH DAVID LEACOCK, Lecturer in History (Northwest Campus) (to June 30, 1964).  
Ph.B., University of Chicago, 1945; A.B., University of Wisconsin, 1948; A.M., University of California, 1952; Ph.D., 1959.
- KEITH E. LORENTZEN, Assistant Professor of Chemistry (Northwest Campus).  
A.B., University of Utah, 1942; M.S., 1947; Ph.D., Pennsylvania State University, 1951.
- HELEN MAXINE MCMAHON, Assistant Professor of English (Indianapolis Downtown Campus).  
B.Ed., Wisconsin State College (Platteville), 1935; A.M., State University of Iowa, 1942; Ph.D., 1952.
- WERNER MANHEIM, Assistant Professor of French and German (Fort Wayne Campus).  
B.Ed., University of Berlin, 1936; B.M., Cincinnati Conservatory of Music, 1940; M.M., 1941; D.F.A., Chicago Musical College, 1950.
- JOSEPH ALEXANDER MARTELLARO, Assistant Professor of Economics (South Bend-Mishawaka Campus).  
A.B., University of Notre Dame, 1956; A.M., 1958; Ph.D., 1962.



- ENRICO ANTHONY JOHN MARTIN, Academic Counselor (Northwest Campus).  
A.B., Indiana University, 1948; M.S. in Ed., 1949.
- WILBUR LEE MARTIN, Assistant Professor of Speech and Theatre (Northwest Campus).  
A.B., State University of Iowa, 1952; A.M., University of Washington, 1953; Ph.D., State University of Iowa, 1958.
- (Mrs.) JEANNETTE MORROW LANE MATTHEW, Librarian, University Extension and Social Service Library (Indianapolis Downtown Campus).  
A.B., Park College, 1946.
- NEIL EDWARD MATTHEW, Instructor in Fine Arts (Kokomo Campus).  
A.B. in Ed., Arizona State College, 1949; M.F.A., Indiana University, 1955.
- SAMUEL ALFRED MERCANTINI, Resident Lecturer in Government (South Bend-Mishawaka Campus).  
A.B., Kalamazoo College, 1958; A.M., Fletcher School of Law and Diplomacy, Tufts University, 1959.
- (Mrs.) SHIRLEY LEE MHATRE, Assistant Professor of Psychology (South Bend-Mishawaka Campus).  
A.B., Brooklyn College, College of The City of New York, 1953; A.M., University of Denver, 1954; Ph.D., 1958.
- HERBERT CLEO MILLER, Resident Lecturer in Slavic Languages and Literatures (Kokomo Campus).  
A.B., Butler University, 1952; A.M., Indiana University, 1958.
- (Mrs.) MARGARETE KOCH MITCHELL, Resident Lecturer in German and Spanish (Southeastern Campus).  
Akad. gepr. Übersetzer, University of Heidelberg (Germany), 1944; Diplom-Dolmetscher, 1945; A.M. in German, Indiana University, 1953; A.M. in Spanish, 1961.
- FRANCIS JOSEPH ANTHONY MOLSON, Academic Counselor, and Resident Lecturer in English (South Bend-Mishawaka Campus).  
A.B., St. Joseph's College (Ind.), 1954; A.M., University of Notre Dame, 1956.
- POWELL AURELIUS MOORE, Professor of History (Northwest Campus).  
A.B., Centre College of Kentucky, 1926; A.M., Indiana University, 1927; Ph.D., 1932.
- MALCOLM LEE MORRIS, Assistant Professor of Business Administration (School of Business) (Indianapolis Downtown Campus).  
B.B.A., University of Oklahoma, 1952; M.B.A., 1959; D.B.A., Indiana University, 1963.
- BISHWA NATH MUKHERJEE, Visiting Assistant Professor of Psychology (Southeastern Campus).  
A.B., Bihar National College (India), 1951; A.M., Patna University (India), 1953.
- EUGENE BERNARD MURRAY, Resident Lecturer in English (Fort Wayne Campus).  
A.B., Kenyon College, 1952; A.M., Columbia University, 1957.
- WILLIAM MACFARLANE NEIL, Associate Professor of History (Northwest Campus).  
A.B., University of Chicago, 1946; A.M., 1948; Ph.D., 1951.
- ALAN HARRIS OPPENHEIM, Lecturer in Education (Northwest Campus).  
B.S. in Ed., Temple University, 1949; Ed.M., 1952.
- DAVID ORR, Assistant Professor of English (Kokomo Campus).  
A.B., University of North Carolina, 1951; A.M., 1954; Ph.D., 1960.
- PHYLLIS JANE PETERSON, Instructor in Government (Southeastern Campus) (to June 30, 1964).  
A.B., University of Michigan, 1954; A.M., University of California, 1957; Ph.D., University of Michigan, 1962.
- (Mrs.) MARGARET LOUISE BERG PLAYE, Instructor in French (Northwest Campus).  
A.B., University of Pittsburgh, 1940; M.Lett., 1942.
- HARVEY STEELE POLING, JR., Administrative Assistant (Kokomo Campus).  
B.S., Indiana University, 1956; M.S., 1962.
- ANGELINE PRADO, Resident Lecturer in Spanish (Northwest Campus).  
A.B., Indiana University, 1954; A.M., 1961.
- EDWARD DANIAL QUINN, Academic Counselor, and Resident Lecturer in Education (Southeastern Campus).  
A.B., Franklin College of Indiana, 1957; M.S. in Ed., Indiana University, 1961.

- WALT PAUL RISLER, Administrator of Special Programs, and Assistant Professor of Sociology (South Bend-Mishawaka Campus).  
A.B., Upsala College, 1948; A.M., University of Chicago, 1949; Ph.D., 1962.
- ROBERT NEWLIN ROBINSON, Assistant Director of the South Bend-Mishawaka Campus of Indiana University, and Assistant Professor of Accounting (South Bend-Mishawaka Campus).  
B.Ed., Eastern Illinois State College, 1942; M.B.A., Indiana University, 1948; G.P.A., 1953.
- JOSEPH HANSBRO ROSS, Assistant Professor of Chemistry (South Bend-Mishawaka Campus).  
B.S., Rice Institute, 1946; A.M., University of Texas, 1948; Ph.D., University of Maryland, 1957.
- FREDERICK AUGUSTUS SCHMINKE, Assistant Professor of History (Fort Wayne Campus).  
A.B., Anderson College and Theological Seminary, 1932; D. ès L., Université de Toulouse, 1939.
- (Mrs.) MARY ELISABETH SELDON, Assistant Professor of History (Indianapolis Downtown Campus).  
A.B., Indiana University, 1942; A.M., 1945; Ph.D., 1959.
- DAVID SHUSTERMAN, Associate Professor of English (Southeastern Campus) (on leave of absence, second semester, 1963-64).  
A.B., New York University, 1949; A.M., 1950; Ph.D., 1953.
- HAROLD H. SIEGEL, Assistant Professor of Psychology (South Bend-Mishawaka Campus).  
O.D., Northern Illinois College of Optometry, 1938; A.B., Indiana University, 1953; M.S., Northwestern University, 1958; Ph.D., 1962.
- LESLIE PAUL SINGER, Associate Professor of Economics (Northwest Campus) (on leave of absence, first semester, 1963-64).  
Abiturium, Gymnasium (Trencin, Czechoslovakia), 1941; Engineer of Commerce, University of Bratislava (Czechoslovakia), 1946; Doctorat, 1949; A.M., Indiana University, 1953; Ph.D., 1958.
- PAUL ROYCE SMITH, Assistant Professor of English (Southeastern Campus).  
A.B., University of Georgia, 1950; A.M., 1951; Ph.D., University of Florida, 1955.
- (Mrs.) STELLA TILLEY SMITH, Assistant Professor of English (Southeastern Campus).  
A.B., Berry College, 1943; A.M., University of Georgia, 1949; Ph.D., University of Florida, 1953.
- JULIUS JOSEPH SMULKSTYS, Assistant Professor of Government (Fort Wayne Campus).  
A.B., University of Illinois, 1953; A.M., 1955; Ph.D., Indiana University, 1963.
- DANIEL JACOB STERN, Assistant Professor of Psychology (Northwest Campus).  
A.B., Cornell University, 1954; A.M., University of Wisconsin, 1958; Ph.D., 1961.
- ROBERT FRANCIS STOUT, Resident Lecturer in Government (Northwest Campus).  
A.B., LaSalle College, 1953; A.M., University of Detroit, 1956.
- JACOB SUDERMANN, Assistant Professor of German (South Bend-Mishawaka Campus) (on leave of absence, second semester, 1963-64).  
A.B., Goshen College, 1932; A.M., University of Michigan, 1937.
- JOSEPH THOMAS TAYLOR, Associate Professor of Sociology (Indianapolis Downtown Campus).  
A.B., University of Illinois, 1936; A.M., 1937; Ph.D., Indiana University, 1952.
- WILLIAM RICHARD TAYLOR, Resident Lecturer in Sociology (Kokomo Campus).  
A.B., Asbury College, 1957; M.S., Purdue University, 1961.
- GEORGE NICHOLAS THOMA, Assistant Director for the Northwest Campus of Indiana University, and Assistant Professor of English (Northwest Campus).  
A.B., Loras College, 1941; A.M., University of Notre Dame, 1951; Ph.D., University of Chicago, 1958.
- HAROLD FABIAN UNDERHILL, Associate Professor of Economics (Indianapolis Downtown Campus).  
A.B., University of British Columbia, 1930; Ph.D., University of California, 1935.
- STEPHEN HENRY WALES, Assistant Director of the Eastern Indiana Center of Earlham College and Indiana University; Assistant Professor of Accounting (Eastern Indiana Center).  
B.B.A., University of Massachusetts, 1959; M.B.A., Indiana University, 1960.
- FRANK JOHNSON WELCHER, Professor of Chemistry (Indianapolis Downtown Campus).  
A.B., Indiana University, 1929; A.M., 1930; Ph.D., 1932.



- JOHN ARTHUR WENDLAND, Resident Lecturer in Mathematics (Southeastern Campus).  
A.B., Indiana University, 1955; A.M., 1960.
- ROBERT NOEL WHITEHURST, Assistant Professor of Sociology (Fort Wayne Campus).  
A.B., Butler University, 1959; M.S., Purdue University, 1961; Ph.D., 1963.
- BETTY JUNE WILLIAMS, Assistant Counselor (Indianapolis Downtown Campus).  
A.B., Butler University, 1955; M.S., Indiana University, 1961.
- HENRY EUGENE WINE, Librarian (Northwest Campus).  
A.B., Miami University, 1950; B.S., Ohio State University, 1955; M.S. in L.S., Western Reserve University, 1958.
- LESTER MARVIN WOLFSON, Assistant Chairman, and Associate Professor of English (Northwest Campus) (to June 30, 1964); Director of the South Bend-Mishawaka Campus of Indiana University, Assistant Dean of the Division of University Extension, and Associate Professor of English (South Bend-Mishawaka Campus) (from July 1, 1964).  
A.B., University of Michigan, 1945; A.M., 1946; Ph.D., 1954.
- THEODORE ALFRED YOUNG, Academic Counselor, and Resident Lecturer in Philosophy (Fort Wayne Campus) (to August 31, 1964).  
A.B., University of Denver, 1949; A.M., Indiana University, 1954.
- MARTIN ZELT, Assistant Professor of German (Northwest Campus).  
Staatsexamen, University of Berlin, 1932; Dr. of Law, University of Heidelberg, 1933.
- MARTIN FOX ZETTEL, Resident Lecturer in English (Fort Wayne Campus) (to June 30, 1964).  
A.B., Harvard College, 1955; A.M., Columbia University, 1957.
- MARY KATHERINE ZIMMERMAN, Librarian (South Bend-Mishawaka Campus).  
A.B., Indiana University, 1959; M.S. in L.S., Catholic University of America, 1962.
- KARL EDWIN ZINK, Associate Professor of English (Northwest Campus).  
A.B., University of Florida, 1939; A.M., 1940; Ph.D., University of Washington, 1952.
- JACOB JOSEPH ZUBATY, Resident Lecturer in English (Fort Wayne Campus) (to August 31, 1964).  
B.S., University of Illinois, 1953; A.M., 1960.

### EMERITUS FACULTY

#### Division of University Extension

- MARY F. ANDERSON, Assistant Professor Emeritus of English; formerly Director, Bureau of Public Discussion.
- FLOYD HARRISON DEEN, Associate Professor Emeritus of English, South Bend-Mishawaka Campus.
- ALBERT FERTSCH, Assistant Professor Emeritus of Education; formerly Director, Gary Campus.
- FLOYD IVAN McMURRAY, Assistant Professor Emeritus; formerly Director, Southeastern Campus.
- FLOYD RALPH NEFF, Assistant Professor Emeritus of English; formerly Director, Fort Wayne Campus.
- MARY BURCHARD ORVIS, Associate Professor Emeritus of Journalism; formerly Director, Indianapolis Downtown Campus.
- LOUISE H. ROGERS, Assistant Professor Emeritus; formerly Director, Bureau of Correspondence Study.
- HEBER PERVIS WALKER, Assistant Professor Emeritus of History, Indianapolis Downtown Campus.

## INDIANA UNIVERSITY

### Division of University Extension

By every measure of strength among modern universities, Indiana University ranks near the top. It is old enough (founded in 1820) to have great stability and great traditions. It is large enough (tenth in the nation) to offer, both on the Bloomington Campus and at its regional campuses throughout the state, a breadth of instruction seldom equaled.

Its formal educational functions at the regional campuses and many other informal instructional programs are to a very great extent the province of the Division of University Extension. This *Bulletin*, while devoting most of its space to the regional campuses, includes, in addition, brief statements concerning the other services which operate within the Division through the following organizations:

- AUDIO-VISUAL CENTER (see page 60)
- CONFERENCE BUREAU (see page 61)
- BUREAU OF CORRESPONDENCE STUDY (see page 61)
- BUREAU OF INDUSTRIAL AND LABOR SERVICES (see page 62)
- BUREAU OF PUBLIC DISCUSSION (see page 62)
- BUREAU OF STUDIES IN ADULT EDUCATION (see page 64)



## REGIONAL CAMPUSES AND CENTERS

Through its eight regional campuses and centers, Indiana University makes higher educational programs available throughout the state, at Indianapolis, Fort Wayne, Gary, Kokomo, South Bend, Jeffersonville, Richmond, and Vincennes, the latter two cooperatively administered with Earlham College and Vincennes University, respectively. See pages 14-21 for a complete listing, including addresses, telephone numbers, and officials in charge.

The system of regional campuses is not a new development; it has evolved through almost half a century. The first two campuses were established at Indianapolis and Fort Wayne in 1916 and 1917, respectively. The next—Calumet,<sup>#</sup> 1932—is more than twenty-five years old. The others, all established between 1940 and 1950\* and basing their policies on those of their predecessors, have developed so that they also reflect University tradition, spirit, and standards.

The regional campuses are Indiana University "on location." Each has its own building or buildings and the atmosphere of a small college. Enrollments of college-age credit students predominate; hundreds of adults register also for cultural and profession-oriented courses, both credit and noncredit.

Credit students enrolled in the fall of 1963 totaled more than 11,500,<sup>†</sup> with 999 at the smallest of the regional campuses and 3,086 at the largest. Of these 1,822 were classified as full-time students taking twelve hours or more, with 553 of these on the Northwest Campus and 371 at South Bend. In addition, there were 7,900 at the several campuses and centers who attended 165 different noncredit courses and auditorium presentations.

Most of the regional campuses are self-contained complexes of classrooms, laboratories, and general and faculty offices, with library and reading room facilities and space for student relaxation and activities. The laboratories include up-to-date equipment for study of languages, fine and performing arts, and scientific areas—chemistry, physics, psychology, zoology. In addition to the usual basic reference works and the holdings directly related to course offerings, the libraries contain microfilm readers, tape and record listening booths, etc. Two campuses (Northwest and South Bend) have auditoriums for local and imported lectures, stage productions, and music programs; an auditorium is planned for the new Kokomo Campus.

Regular Indiana University courses make up the credit programs at each regional campus. Their organization and content are coordinated with the courses at Bloomington, and records of credits from the several campuses are filed permanently in the Bloomington Office of Records and Admissions. Courses offered at the regional campuses are intended for (a) the young high school graduate who wishes to attend college on a full-time basis in his home locality, (b) the high school graduate—young or older—who wishes to work toward a college degree but whose responsibilities oblige him to take college classes on a part-time basis, (c) the adult who desires to take college courses for self-improvement, for improvement of his job status, or simply to satisfy his desire to keep on learning, (d) the student who may be working for a degree at another campus (at Bloomington or elsewhere) but who finds it convenient to take part of his course work nearer home.

Freshmen and sophomores have a wide choice of courses. Advanced undergraduate courses are also offered, as well as numerous graduate courses in education and in health, physical education, and recreation and a smaller yet increasing number in the

<sup>#</sup> Now united with Gary—the Northwest Campus.

\* South Bend, 1940; Southeastern, 1941; Kokomo, 1945; Gary, 1948; the two cooperative Centers in 1946 (Eastern) and 1950 (Vincennes).

<sup>†</sup> Fort Wayne, 999; Indianapolis, 3,086; Kokomo, 1,018; Northwest, 2,718; South Bend, 1,851; Southeastern, 1,272.

arts and sciences and in business. Names and descriptions of the courses most frequently offered at the various campuses are listed on pages 41-59. Preliminary and final schedules of those to be offered each semester and each summer session by the respective campuses and centers will be available at their offices several weeks before (the final schedule immediately before) each session begins.

At each campus there is in residence a faculty body of from ten to thirty-eight members (see the listing on pages 3-10), who are the core of the teaching staff. The selection, the qualifications, and the rank of each of these faculty members are established on the same basis as for faculty appointed to serve on the Bloomington Campus. Salaries and other benefits, including tenure and retirement, are commensurate.

The resident faculties are supplemented at each campus by associate faculty members who have been approved by the appropriate department and deans on the Bloomington Campus for the particular courses they teach. These include faculty members and teaching associates from the Bloomington Campus and from other colleges and universities, as well as qualified business and professional people. As many as seventy members from the Bloomington Campus faculties, especially those who teach graduate business, education, and HPER courses, offer regular instruction at the regional campuses. Each year several courses are offered at the Indianapolis Downtown Campus through closed-circuit television originating in regular classrooms on the Bloomington Campus. A link with Purdue University's Lafayette and Indianapolis Campuses has been established also, and it is hoped that other regional campuses will soon be included in the closed-circuit network.

Counselors are in residence at each of the regional campuses to help students select courses which lead to their desired objective. Freshman and sophomore requirements for most Indiana University degrees are outlined on pages 28-31; requirements for Indiana Teachers' Certificates, on pages 31 to 33; requirements for Indiana University Two-Year Certificates, on pages 34-36; and requirements for a few of the graduate degrees most frequently requested, on pages 37-38.

Courses are often taken at the several campuses for transfer to other institutions in the state, both public and private, and to out-of-state institutions as well. Because of the specialized, technical nature of Purdue University's degree requirements,\* that institution is invited to offer certain of its own courses at the Indiana University regional campuses where there is a demand for them; similarly, Indiana University courses are occasionally given by invitation at a Purdue center or campus.

Courses leading to certificates in a number of professional fields (for example, insurance, real estate, secretarial, banking) are offered at most of the regional campuses. Many of the courses included in these sequences are regular credit courses applicable on University degrees; others are courses specially prepared by the national organizations which award the certificates and taught by University-approved professional men and women.

Scores of noncredit courses in such fields of interest as the arts, business, international relations, languages, literature, and science are offered at the regional campuses. Brochures listing these and the certificate series offered are available at the several offices.

General information about admission, registration, fees, etc. follows on pages 22-27. See page 2 for the Calendar. Special information about office hours, schedule, scholarships, and honor rolls as they pertain to each regional campus will be issued by the individual campuses. Write or telephone for copies. See pages 14-21 for addresses of the regional campuses and centers.

\* See pages 39-40 for courses required by Purdue of freshmen in engineering and in mechanical technology.



**FORT WAYNE CAMPUS**  
1120 South Barr Street, Fort Wayne 46802  
Telephone 742-7452

After September 1, 1964: Indiana-Purdue Regional Campus at Fort Wayne  
2101 East U. S. 30, Fort Wayne 46805  
Telephone 483-8121

**Indiana University**

RALPH E. BROYLES, Director and Assistant Dean.

THEODORE A. YOUNG, Academic Counselor.

J. CURT BOHLING, Librarian.

Professors BOWMAN, ENGLE, GORHAM; Associate Professors BROYLES, HEADINGS;  
Assistant Professors BALES, FIEHLER, FRANK, MANHEIM, SCHMINKE, SMULKSTYS,  
WHITEHURST; Resident Lecturers GREGORY, JOHNSON, MURRAY, YOUNG, ZETTELL.

Associate Faculty: R. F. BAILHE, J. R. BARRON, C. H. BARTELS, Miss M. E. BELL,  
C. E. BICKLEY, G. W. BORDNER, Miss M. J. BRIGHAM, K. W. BURR, Mrs. M. V.  
CHAPMAN, Mrs. C. R. COOPER, J. A. DAVIS, O. M. DAVIS, J. H. DEITCHE,  
D. J. DIMBERIO, Rabbi F. A. DOPPELT, J. J. FLYNN, R. FRANK, Miss A. GERIG,  
E. E. GOEHRING, H. S. GRABNER, Miss M. L. GREENWALT, D. A. GRIGGS, R. W.  
HALLER, Mrs. I. HAMLETT, E. B. HANCOCK, L. W. HESS, P. HIATT, Mrs. H. J.  
HOBBS, R. E. HOWARD, S. W. D. JOHNSTON, K. M. JORDAN, Mrs. M. J. KAISER,  
R. C. KNAPP, J. J. LEVINTOFF, F. E. MAY, D. P. MCGLEAD, J. S. MCFADDEN,  
I. S. MCLUCKIE, T. G. McRAE, Mrs. E. H. MANHEIM, W. D. MASON, G. E.  
MENDENHALL, E. L. MEYER, A. W. MOELLERING, Mrs. B. J. MYERS, R. V.  
NICKELL, Miss B. S. NIELSEN, J. N. PICHON, Q. D. PONDER, R. L. PUNSKY,  
J. A. PURKHISER, I. M. ROLLAND, Miss I. M. SPANGLER, D. W. TILFORD,  
M. G. UPDIKE, M. J. VARGAS, O. E. WINTER, R. E. WISE, L. L. YAGGY, Mrs.  
V. G. YOUNG.

The Fort Wayne Campus is presently located at 1120 South Barr Street, where  
a broad academic program is offered by a faculty of about eighty members.

By September first, 1964, Indiana and Purdue Universities will offer a joint pro-  
gram in their new building located on a 200-acre site at the northeastern edge of Fort  
Wayne. The site is beautifully situated near the St. Joseph River on the National  
Road 30 Bypass and easily accessible to persons from Allen County and the several  
surrounding counties.

Modern quarters and special equipment will make possible new programs which  
will serve all students: those interested in the arts, in the sciences, in business, in  
technical fields, in degrees, in certificates, and in general information courses. They  
will include a broad offering of both day and evening credit courses in most phases  
of University work and special lecture series of interest to the general public.

By an agreement between the Fort Wayne Art School and Indiana University,  
students may earn as many as sixty semester hours of credit applicable toward the  
B.S. degree at Indiana University in art education or the A.B. degree at Indiana  
University in fine arts. Details may be obtained from officials of the Art School or  
the Fort Wayne Regional Campus.

In cooperation with the Indiana University School of Dentistry, the Dental  
Hygiene Program will be instituted in Fort Wayne in the fall of 1964.

**INDIANAPOLIS DOWNTOWN CAMPUS**  
518 North Delaware, Indianapolis  
Telephone ME 5-5481

VIRGIL HUNT, Director and Assistant Dean.

GERTRUDE K. HEBERLEIN, Director of Programmed Studies in English.

WILLIAM A. JONES, Academic Counselor.

BETTY J. WILLIAMS, Assistant Counselor.

JEANNETTE LANE MATTHEW, Librarian.

Professor WELCHER; Associate Professors DAUNER, KIRCH, TAYLOR, UNDERHILL;  
Assistant Professors BRANNIGAN, COOK, FRIEDMAN, FRYE, GREENLEAF, HANSFORD,  
HEBERLEIN, HUNT, JONES, KELLER, KRUEGER, McMAHON, MORRIS, SELDON;  
Instructor MATTHEW; Resident Lecturers GARAFOLO, HUGHES.

Associate Faculty: Miss A. ABBINANTI, Miss P. APOSTOL, A. BARTHEL, Mrs. E.  
BAUMANN, Miss H. B. BLAND, D. G. BURN., H. F. BUTLER, R. L. CAMPBELL,  
Mrs. C. R. CHAMBERS, F. B. CLEAVES, C. COLEY, Mrs. M. M. COLLESTER,  
D. M. COMPTON, K. E. COOK, C. H. CORBIN, Mrs. D. B. DAILEY, T. L. DAVIS,  
Miss M. DRAPER, E. L. EGGLESTON, Mrs. M. E. FIELDS, W. S. FISHBACK,  
H. M. GARRIOTT, J. A. GRAYSON, L. F. GROTH, Mrs. J. U. HALLAM, D. HANIG,  
Mrs. L. L. HARTMAN, J. T. HATCHETT, J. H. HELD, H. HILBERRY, P. HIRSCH,  
P. H. HIRSCH, J. R. HORNBECK, B. G. JACKSON, G. E. JACKSON, W. P. JONES,  
Mrs. B. B. JUDAY, D. S. KING, Mrs. M. R. LAUER, R. O. LEE, J. F. LOMONT,  
J. L. LORAND, Mrs. R. G. LORAND, R. D. LORING, H. E. LUKER, D. LUTHER,  
J. E. McSHAY, W. P. MORGAN, W. L. MORROW, J. G. MURPHY, H. G. NARROL,  
H. H. NEGLEY, O. A. PAUL, Miss R. E. PITTS, R. G. REED, J. H. RICH, G. E.  
RICHARDSON, Mrs. M. ROWE, D. M. ROYER, F. W. RUEBECK, Mme. I. SAMPER,  
J. F. SCHRODT, Mrs. M. G. SCOTT, L. SMALL, K. E. STEEGMANN, J. A. SUNDERMAN,  
Mrs. M. E. SVOBODA, Mrs. S. TETHER, R. C. TOOLE, Mrs. N. J. WATTS, N. C.  
WEBSTER, R. K. WHIPPLE, R. D. WHITLOW, H. F. WILLIAMS, Mrs. B. WILSON,  
C. S. WRIGHT, J. ZIMMERMANN.

In three contiguous buildings in downtown Indianapolis, this Campus, with its  
faculty of approximately 100, schedules a large number of afternoon and evening  
courses. The number of full-time students who register in these courses is constantly  
growing.

This Campus performs a unifying service, which its location provides, by sched-  
uling general academic courses needed for the hundreds of students working toward  
degrees in the allied health sciences, dental hygiene, nursing, and physical education at  
other Indianapolis campuses.

Indianapolis is privileged in that it can participate in closed-circuit television  
instruction from the Bloomington Campus. Graduate courses in business and educa-  
tion are brought by TV simultaneously into classrooms at Bloomington and at Indian-  
apolis. Regular classroom discussion is made possible by telephone hookups. The  
M.B.A. program at the Indianapolis Downtown Campus is the only complete graduate  
degree program offered on a regional campus. Because of its nearness to Bloomington  
the Indianapolis Downtown Campus also can avail itself of the services of a large  
contingent of professors who commute from the Bloomington Campus.



**KOKOMO CAMPUS**  
1216 West Sycamore Street, Kokomo  
Telephone 452-5663

VICTOR M. BOGLE, Director and Assistant Dean.

ROBERT D. HENNON, Academic Counselor.

HARVEY S. POLING, Administrative Assistant.

Assistant Professors BOGLE, DAVIDSON, ORR; Instructor N. MATTHEW; Resident Lecturers ALLEN, HENNON, HURT, MILLER, TAYLOR.

Associate Faculty: Mrs. R. AKEMANN, Mrs. S. BLOSSEY, R. BASTIAN, G. BURCHFIELD, W. COLLEY, J. COOK, R. DONAHUE, R. DUNLAP, T. FERGUSON, J. GEARITY, J. GINGERICH, T. R. GOEL, Mrs. R. GROSS, H. HART, R. HAYES, J. HEALY, T. HELMREICH, J. HOLLOWAY, R. HOWARD, J. JENKINS, K. F. JORDAN, Mrs. J. KAHLER, R. KINSEY, H. LEE, E. LUELLEN, Mrs. J. MCCORMACK, M. MCGLOSSON, D. ORLOSKY, P. OVERMAN, H. W. PAIK, Mrs. J. POPE, J. RAGAINS, H. P. ROOT, F. ROYE, T. SANDIN, R. SCHUELER, K. SHARKEY, J. SHROAT, Mrs. B. SMOKER, M. STERN, D. TIGERT, T. TOLLEFSON, G. UNDERHILL, H. WALKER, Mrs. M. WOLEVER.

Soon the operation of Indiana University in Kokomo will shift to a new and expanded setting in the southern part of the city. The Kokomo Campus in the meantime is housed in two large residences and their carriage houses, surrounded by stately elms and maples, reminiscent of a bygone era.

Nevertheless, this Campus, with its faculty of nearly fifty, has been providing a varied offering of courses for seventeen years for a wide clientele of students, college age and older. Over the years, courses have also been given in Marion, Peru, and Logansport and, more recently, at Bunker Hill Air Force Base. The increasing number of personnel at Bunker Hill Air Force Base, along with the emphasis of the armed forces on college course work, suggests further growth of academic service from the Kokomo Campus.

In addition to the Kokomo Campus regular college classes, its noncredit program has been fashioned in response to needs of industry and provides professional workshops and lectures in literature and the arts. Especially noteworthy is the sponsorship of amateur theatre groups in both Kokomo and Marion. When the new building is completed, its auditorium will greatly stimulate this type of activity and provide a setting for other kinds of community gatherings. Conferences and short courses on public affairs, which have been featured at the Kokomo Campus, will no doubt experience a fresh impetus in the new surroundings.

**NORTHWEST CAMPUS**  
3400 South Broadway, Gary 46408  
Telephone 887-7511

JOHN C. BUHNER, Director of Academic Administration, and Assistant Dean.

HAROLD E. BURNS, Administrator for Studies and Planning, and Assistant Dean.

HAROLD A. LONG, Assistant to Director.

ENRICO A. J. MARTIN, Director of Counseling.

ANITA L. HUGHES, Assistant Counselor.

Professor MOORE; Associate Professors AUSTIN, HERED, NEIL, SINGER, WOLFSON, ZINK; Assistant Professors AHLF, BROWN, BUHNER, BURNS, CARNEY, CLOWER, DUNN, FELDMAN, FOOR, FORTENBERRY (Education), HICKS, LORENTZEN, W. L. MARTIN, STERN, THOMA, ZELT; Instructors C. W. ANDERSON, PLAYE; Lecturers LEACOCK, OPPENHEIM; Resident Lecturers R. G. ANDERSON, CIGAK, GAINES, GOODRICH, HERR, HUTCHINSON, LA BARR, PRADO, STOUT.

Associate Faculty M. M. AHMAD, S. S. AHMAD, Miss C. J. ASSELIN, E. N. BIEL, L. C. BLAKE, E. BRECKENRIDGE, E. W. BROCKOPP, R. G. BROWN, C. E. CARLSON, J. W. CASEY, H. CEPERICH, M. CHERNOFF, Miss M. L. CLARK, M. CLARKE, R. J. COMBS, Z. J. CORNEA, C. COPPOLA, L. D. GROXTON, P. A. CZAMANSKE, Miss J. CZARNECKI, L. W. DABAGIA, D. J. DAVIS, Miss L. DAVIS, Mrs. R. DEVERICK, Miss M. A. EDWARDS, A. FISSINGER, F. FLINN, J. E. FRIEDMAN, J. E. GEARITY, W. GIANNPOULOS, B. GROSS, Mrs. H. E. GROSS, M. GUIDEN, Mrs. J. HALLER, H. S. HAMOD, B. HANNON, R. J. HANSON, D. F. HENNON, P. T. HEYNE, J. E. HICKS, E. J. HOOKS, C. HUBBARD, Miss H. R. HUBER, R. M. ISHERWOOD, F. M. JACOBSEN, Mrs. E. C. JANES, R. JERRY, R. I. JOHNSON, R. L. JONES, F. KALLAY, J. T. KARR, F. KRETZ, J. D. LA BARR, J. S. LICHON, Miss C. LOWRY, M. E. MARTEN, D. M. MARTIN, Miss E. MCCABE, G. C. McELROY, Mrs. F. L. MAHANEY, N. MENEAKIS, J. M. MEJIA, E. J. MUSCH, H. C. NICKEL, Miss J. W. NISSMAN, S. M. PATAKI, G. PLAYE, T. D. PRENDERGAST, D. D. RAIBOURN, P. D. RAISOR, Miss C. RESTREPO, A. K. ROEBUCK, Mrs. E. M. ROSS, N. H. ROWLAND, E. RUPRECHT, T. F. SAARINEN, A. T. SAWYER, Miss E. SCHEDDEL, D. B. SCHWANHOLT, C. L. SHARP, L. A. SHRAGO, Miss D. SIMPSON, T. W. SIZOR, F. R. SLOSSON, E. A. SOUTHWELL, Miss P. A. SPECKHARD, D. L. STAMPE, Miss J. W. STEDMAN, Miss D. STEGENGA, F. C. STERN, E. T. STEVENS, W. B. STONE, G. STRIMBU, Miss M. SUFANA, T. E. SWANK, Miss B. L. SWENTZEL, E. TAVRIS, Miss C. D. TAYLOR, J. N. THOMAS, Mrs. B. TINSLEY, M. E. TINSLEY, Miss G. M. TRANI, K. TURMAN, Mrs. U. VIDAL, J. VOGUSEN, J. A. WALDSCHMIDT, R. WALDSCHMIDT, J. H. WAXMAN, Mrs. K. P. WELSH, J. WHEELER, J. G. WILLARD, Mrs. E. W. WILLIAMSON, W. F. WILSON, W. T. WITZEL, J. N. ZNEIMER.

The Northwest Campus, with headquarters in Gary and classroom buildings in Gary and East Chicago, provides for all of Lake County and neighboring counties a large choice of daytime Indiana University courses intended for the student who seeks a college degree. The programs scheduled also include many evening and non-credit courses, and classes are held in area high schools as well as at the East Chicago and Gary Buildings.

Unique among the Indiana University Campuses, the Northwest Campus, then known as the Calumet Center, was established in East Chicago at the direct request of the city's school officials and community organizations. After several years' occupancy of office and classroom space generously supplied by the public schools, the present building was constructed there, with the help of federal funds, on land donated by the city of East Chicago.



The Gary Building, completed in 1959, in Gleason Park on South Broadway is centrally located to prospective students from the entire Calumet community, and its pleasant, tree-shaded grounds offer a traditional collegiate setting for the full university program annually scheduled and for student and community activities as well.

A faculty of one hundred thirty teaching and research scholars provides a varied program of both undergraduate and graduate courses, as well as extensive noncredit offerings for adults in continuing education. A full-time student body of 660 supplemented by over 2,000 part-time students engage in a variety of academic and extra-curricular activities typical of college campuses.

The Northwest Campus is noted for its burgeoning academic theatre program and its close relationships with the community. It is rapidly becoming one of northwest Indiana's most frequently used facilities for professional and academic meetings and conferences. Its well-equipped auditorium in Gary and its other facilities make possible a great variety of cultural and artistic activities, including concerts, operas, poetry readings, lectures, classic films, art exhibits, and public forums.

**SOUTH BEND-MISHAWAKA CAMPUS**  
Northside Boulevard at Greenlawn, South Bend  
Telephone AT 2-2341

JACK J. DETZLER, Director and Assistant Dean (to June 30, 1964).

LESTER M. WOLFSON, Director and Assistant Dean (from July 1, 1964).

ROBERT N. ROBINSON, Assistant Director.

FRANCIS MOLSON, Academic Counselor.

THOMAS H. DONOHUE, Assistant to the Counselor.

WALT P. RISLER, Administrator of Special Programs.

MARY KATHERINE ZIMMERMAN, Librarian.

Associate Professors CASSIDY, GERKIN, WOLFSON; Assistant Professors ALLEN, DE LARA, DETZLER, KRAUSKOPF, MARTELLARO, MHATRE, RISLER, ROBINSON, ROSS, SIEGEL, SUDERMANN; Instructor GALLAGHER; Resident Lecturers BRAMER, DAY, GREEN, HESSLINK, MERCANTINI, MOLSON.

Associate Faculty: P. ABERNATHY, R. ADAMS, V. ADAMS, W. F. ARMSTRONG, H. J. BAKER, L. BAKER, B. BAUER, Mrs. A. BOHAN, W. BRADY, M. BRAVIN, E. BRECKENRIDGE, J. BULLARD, J. F. BURKE, R. BURLINGAME, F. CARPENELLI, H. CARR, Miss M. CARTER, L. CHATAGNIER, F. CLAEYS, D. CLINE, D. COLEMAN, T. COLLINS, D. COURT, J. V. DAVIS, C. DEARDORFF, K. DEGROFF, L. DESKOVISH, Mrs. I. DOYLE, J. DURBEN, J. EIGSTI, R. EISENSTEIN, Mrs. C. EVANS, Mrs. J. FINFER, Mrs. E. FINK, Mrs. G. FORTIN, W. GARRETT, H. GRAM, Mrs. B. HAPP, L. HARTZLER, R. HELMS, P. HERRIGES, P. D. HIATT, A. HINTON, J. HOFFMAN, E. HUDSON, S. HUMNICKY, Mrs. G. IVORY, Z. JANKOWSKI, D. JENKINS, R. JONES, Mrs. E. KERN, K. T. KOSHY, W. KOWITZ, E. KRANTZ, P. KROUSE, D. KUBAL, C. LEHMEN, H. A. LEONARD, J. LYNCH, H. MCCOMBS, D. McFEE, W. MADDEN, R. MATTHEWS, R. MEISTER, D. MUNDINGER, J. NAFF, R. NEFF, I. PANGRAC, H. J. PARADIS, M. PILARSKI, P. PIRTLE, R. QUIMBY, Miss M. RIDDICK, M. RIEDEL, Miss M. J. RIETH, K. ROBINSON, W. ROEMER, M. ROSE, Miss M. V. ROSENFELD, J. R. ROSS, R. ROYSTER, B. SCHADNAGL, J. D. SCHMITT, R. SCHRINER, R. SCHURR, H. SIEGER, A. SIMON, Mrs. M. SMILYANITCH, A. SMITH, H. STANDLY, O. J. STINE, W. STRYCKER, Mrs. R. SWANSON, T. SWANSON, J. W. TOTH, Miss F. TYLER, G. VIGER, G. WEATHERS, Mrs. R. WEIR, V. WEIR, G. WENGER, P. WEVER, D. C. WILLIS, J. WILMORE, Mrs. E. ZEIGER.

The beautiful new building of the South Bend-Mishawaka Campus on Northside Boulevard at Greenlawn overlooks the calm St. Joseph River.

This Campus is especially noted for the great variety of special programs—continuing education courses which attract hundreds of people from all walks of life—professional men and women, housewives and parents, and men and women in the business world.

Daytime and evening courses this past September served nearly 1,900 credit students, 400 of them carrying a full-time collegiate course load. The faculty numbers 97. In addition, specially qualified lecturers assist in offering the noncredit and special course program.

An adequate and expanding library with well-lighted tables is conducive to study, and a student lounge and vending room serve students' convenience. But the crowning facility is the beautiful 800-seat auditorium which provides not only the South Bend-Mishawaka Campus, but also the region it serves, with a meeting-room theatre equipped for large and complex theatre productions and for lecturers of national note, as well as for the more modest cultural events which the University regularly schedules.



**SOUTHEASTERN CAMPUS**  
Warder Park, Jeffersonville  
Telephone BU 2-4327

BYRON F. LAIRD, Director and Assistant Dean.

KENNETH W. CLARKE, Assistant Director.

EDWARD D. QUINN, Academic Counselor.

NANCY ROBERTSON DAVILA, Librarian.

Associate Professors CLARKE, LAIRD, SHUSTERMAN; Assistant Professors HAFFNER, HILL, P. SMITH, S. SMITH; Resident Lecturers DYSON, HARBIN, HEDGES, HUNT, MITCHELL, QUINN, WENDLAND.

Associate Faculty: A. J. BEELER, Mrs. M. CLARKE, O. P. CLINE, R. COLSTON, E. EFF, G. R. ENGLE, P. S. ESPESETH, E. B. FOWLER, E. J. HADLEY, Mrs. G. J. HAGGARD, N. C. HAMMACK, Mrs. B. V. HAND, Mrs. K. R. HARDY, Mrs. B. HARLAND, Miss D. HOEHN, R. HOLMES, J. A. HOWARD, A. E. IRWIN, I. JUNGHAENE, Mrs. J. KEIRCE, J. A. KNOER, C. R. LAMB, H. N. LEIST, Miss G. R. MCCALL, Mrs. C. McDEVITT, Mrs. M. McKNIGHT, D. E. McMAHEL, V. McKOWN, D. MITSCH, P. MOSER, E. J. MOSS, C. E. PATTERSON, P. I. PETERS, G. POPP, D. L. ROBBINS, Mrs. P. S. ROBERTSON, L. C. RUDOLPH, W. P. SCHNATTER, J. SILLS, H. G. SINKHORN, JR., H. E. SMITH, Miss C. M. SOHM, E. A. STEINKAMP, Mrs. M. STRAUB, E. THIEMAN, A. J. THOMPSON, R. THOMPSON, Miss O. TYLER, F. E. VAUGHN, Mrs. V. WALLACE, H. WALLER, Mrs. L. J. WEBSTER, S. A. WHITE, N. WILLARD, JR., Mrs. N. J. WILLINGHAM, Mrs. M. A. ZABEL.

Southeastern Campus is the busy headquarters for hundreds of students from southeastern Indiana and the Falls Cities Area who take freshman and sophomore courses and sometimes courses more advanced near their homes before moving on to the Bloomington Campus or other schools of their choice. The modern, air-conditioned building in an attractive park setting provides comfortable classrooms and well-equipped laboratories in an atmosphere of academic industry. Daytime and early evening classes provide for a flexibility of course schedules, giving the maximum opportunity for part-time employment to a majority of the student body.

In addition to the regular undergraduate degree programs, Southeastern Campus offers many opportunities for upgrading and self-improvement to businessmen, teachers, and members of other professions. Credit courses useful for occupational improvement and special courses designed to be of general cultural interest attract a stimulating variety of students of all ages.

Southeastern was the first regional campus to establish a student newspaper, *The Southeastern Student*, and it has the oldest Student Council in continuous existence. Beginning in 1962 a cooperative program with Purdue University brought Purdue freshman engineering to Southeastern and since 1963 courses toward the Purdue Associate Degree in Mechanical Engineering Technology.

**EASTERN INDIANA CENTER**  
**OF EARLHAM COLLEGE AND INDIANA UNIVERSITY**  
Carpenter Hall, Earlham College, Richmond  
Telephone 2-6161

E. ORVILLE JOHNSON, Director.

STEPHEN H. WALES, Assistant Director.

**VINCENNES EDUCATIONAL CENTER**  
**OF VINCENNES UNIVERSITY AND INDIANA UNIVERSITY**  
Vincennes University, Vincennes  
Telephone TU 2-3350

J. HOWARD HILL, Director.

These two Centers are operated cooperatively by Indiana University with Earlham College and Vincennes University, respectively. Each is housed in the host institution buildings and uses its library and classroom facilities.

The Center in Richmond is intended not only for part-time students, but also for full-time freshman and sophomore students of the area who wish to begin university work while living at home. The Center's service to full-time students is especially encouraged by Earlham College, the policy of which drastically limits local enrollments.

The service of the Center in Vincennes is intended primarily for the part-time working student, since full-time students are taken care of through the residence programs of the cooperating institution. Upperclass and graduate courses comprise most of the offering to supplement the junior college function which Vincennes University performs.

Courses offered include credit courses at all levels and a number of special courses for the adult noncredit audiences in the areas. Though the number of students served presently is not large, these Centers are set up to expand and diversify their listings as the demand increases.



## Rules and Regulations

Indiana University, at its eight regional campuses and centers, offers university courses which may be applied toward undergraduate and graduate degrees, as well as special programs designed for cultural or vocational advancement. The regional campuses offer three sessions during the year: fall and spring semesters and a summer session.

Specific requirements for any degree offered by Indiana University are listed in the bulletin of the particular school granting the degree. These bulletins may be obtained from the local office or from the Bloomington Campus. See also the suggested programs for freshmen and/or sophomores listed on pages 26-30. Students desiring further information may consult the academic counselor of the regional campus.

**Undergraduate Courses.** The regional campuses regularly offer a broad program of freshman and sophomore courses and a limited number of advanced courses applicable to the four-year degrees offered by Indiana University. Students who have accumulated sixty semester hours of credit toward these degrees at a regional campus should consult the dean of the appropriate school or college or the chairman of his major department before continuing. Students expecting to receive a degree at another institution must plan their programs to satisfy that institution.

Indiana University awards certificates to students who complete certain prescribed credit course requirements. Currently, certificate programs have been developed in six major fields: accounting, management and administration, the humanities, social sciences, sciences, and office management. The requirements for these certificates are published separately. Consult the academic counselor. See also pages 32-34.

**Graduate Courses.** The regional campuses regularly offer a number of courses carrying graduate credit. Students intending to work toward an advanced degree must plan their programs with the appropriate graduate dean.

**Correspondence Study.** The Bureau of Correspondence Study offers courses at both the high school and college levels. Bulletins describing these courses are available at each regional campus office and from the Bureau Office in Bloomington.

**Special Programs.** A variety of special noncredit courses, lectures, institutes, and certificate programs is offered by each regional campus.

**Academic Counseling.** An academic counselor is available for counseling of students at each University campus. Prior to registration, students should consult with the counselor regarding admission, orientation tests, transfer of credits, and planning of programs.

### ADMISSION

**Regular Undergraduate Students.** All students under twenty-one years of age wishing to enroll in credit courses must apply for admission to Indiana University several weeks before registration (July 15 for fall registration, for example). Indiana University degree students, twenty-one or older, enrolling part time, must be admitted no later than the end of the second semester of credit work. Application forms for admission may be obtained from the regional campus office or from the Director of Admissions at Bloomington. An application fee of \$10 (check payable to Indiana University) must be sent to the Admissions Office with the completed form.

Information concerning requirements for admission to Indiana University is available from the Director of Admissions in Bloomington or from the academic counselor at the regional campus.

**Graduate Students.** A student wishing to register for graduate courses at a regional campus must have his admission cleared in advance with the dean of the school in which he wishes to earn his degree. *If a student registers for graduate credit without the approval of his school, he does so without assurance that credit for such work may be applied toward fulfilling requirements for an advanced degree.* Application blanks may be obtained at the local office or from the dean of the school involved. An application fee of \$10, as indicated above, must go with the completed form to the appropriate school.

Students for whom credentials are not filed include:

**Transient Students.** Prior to registration, students from another accredited college or university who plan to enroll at a regional campus must submit evidence of good standing at the institution last attended, or an official letter authorizing enrollment in specific courses. Such students should check with the appropriate dean of their school to make certain that such course credits are acceptable.

**Noncredit and Adult Nondegree Students.** Students who register in noncredit courses or in credit courses as noncredit students need not file formal entrance credentials. Nondegree credit students twenty-one years of age or over are welcomed and encouraged to file credentials and be admitted as regular undergraduates. They may, however, if they prefer and if the University officials having jurisdiction accept them, register in the classification adult nondegree. Those who complete more than twelve hours' credit as adult nondegree students may at the option of the division or school attended be required to file application for regular admission.

**Probation Students.** See page 24.

**High School Students.** Students currently attending a high school who wish to carry one or more courses at Indiana University should see the academic counselor for special regulations.

**Checklisted Students.** A student who has been checklisted by any school or division of Indiana University is automatically prevented from registering again in any division of the University until he has been released from the checklist by the division that checklisted him. A checklisted person may ascertain from the office which checklisted him what procedure he should follow to be removed from the list or to appeal the decision which placed him on the checklist.

### REGISTRATION

Credit registration must be completed during the scheduled registration period. A fee of \$3 is charged those students permitted to enroll late. Noncredit students may register during the registration period or before the first class meeting. Students are not officially enrolled until registration forms are completed and fees are paid.

Changes to credit and noncredit status are prohibited after the second week of classes (first week in summer), unless approved by the Academic Affairs Committee.

**Student Load.** Students may register for a single course or for a full-time college program. Students who register in twelve or more credits in a semester (six or more in summer) are regarded as full-time students. Students who are working full time should not register for more than six credits during regular semesters or three in summer sessions. Teachers who are employed full time are prohibited by a ruling of the State Board of Education from earning more than six credits in one semester.

### SPECIAL EXAMINATIONS

**Foreign Language Placement Tests.** A placement test must be taken by all students who intend to continue a foreign language begun before entrance to the Uni-



versity. Credit will be allowed only for work begun at, and beyond, the level recommended by the language department. Consult the academic counselor.

**Special Examinations.** A fee of \$5 is charged for special examinations for credit or for examinations given at times other than regularly scheduled.

## ACADEMIC REQUIREMENTS

**English Composition.** Every student must demonstrate his ability to use correct, clear, effective English. Instructors in all departments require that examinations and reports be written in acceptable English. Full-time students working toward degrees must register in English composition courses each semester until all English composition requirements are met. These consist of four hours of satisfactory work in English W131-W132 or the equivalent.

**Grades.** The quality of a student's work will be indicated by the following grades: A, B, C, D, F (failed), W (withdrawn), WF (withdrawn—failing or unauthorized withdrawal), and I (incomplete).

Each hour of credit is valued in credit points as follows: A, four points; B, three points; C, two points; D, one point; F or WF, zero points. A minimum cumulative grade average of two points is required for graduation.

The grade of Incomplete is given only when a student's work in a course is satisfactory except that some terminal aspect of the course has not been completed. A student must remove an Incomplete within a combination of two semesters or of one semester and a summer session of subsequent residence in the University; otherwise, the Incomplete grade may be changed to F. A student may not register for credit in a course in which he has a grade of Incomplete.

**Absences** must be explained to the satisfaction of the instructor, who will decide whether or not omitted work may be made up.

**Probation.** All divisions of Indiana University require students to maintain at least a C average to remain in good standing. Failure to do so warrants dismissal.

A student may be placed on academic probation for any one of the following reasons:

1. A deficient high school record—for the beginning freshman when admitted to Indiana University.
2. Failure to achieve a C average in a college semester.
3. Unsatisfactory academic work at midsemester, as revealed by reports from instructors.

A student may remove himself from academic probation by bringing his cumulative grade average to C or better.

The schools and divisions of the University generally deny registration from another school or division to students whose cumulative grade average is less than C. Students with such records at the regional campuses should consult with the Director of Records and Admissions in Bloomington before planning to register for classes on the Bloomington Campus. Students on the Bloomington Campus with such records must confer with the academic counselor before registering at a regional campus.

The Academic Affairs Committee of each regional campus administers all regulations concerning probation.

**Transfers.** Students transferring from other colleges or universities, whether permanently or temporarily, must present proper credentials before their registration can be considered. Ordinarily, students who have less than a C average elsewhere will be considered for admission to Indiana University, and for permission to register at the regional campuses, only if a similar record at Indiana University would qualify them for such consideration. Information concerning the transfer policy can be obtained from the academic counselor.

**Midsemester Reports.** Midsemester reports are sent to undergraduate credit students whose work is unsatisfactory in any course.

**Withdrawals.** Students who discontinue class attendance without following the official withdrawal procedure will receive grades of WF. *Students must make written application for withdrawal.* Forms are available in the regional campus office. Students whose withdrawal application is received during the first four weeks of a semester (two weeks in summer) are graded W by the instructor; those whose approved withdrawal applications are received after the first four weeks of a semester (two weeks in summer) are graded W or WF by the instructor, according to whether the student is passing or failing in the course at the time of withdrawal. Applications for withdrawal cannot be considered until all fees have been paid.

## TRANSFER OF CREDITS

Official transcripts may be obtained only from the Registrar, Indiana University, Bloomington, Indiana. The initial transcript is issued free; thereafter, the charge is \$1 per transcript.

Students changing from a regional campus to the Bloomington Campus do not need a transcript; however, they should make arrangements with campus officials to have required credentials forwarded to the Office of Records and Admissions.

## FINANCIAL INFORMATION

**Fees.** All fees are payable in full at the time of registration: \$15 a semester hour for undergraduate courses, and \$18 a semester hour for graduate courses. In some courses an additional fee may be charged; for example, \$10 is charged for a science laboratory course. Fees for noncredit courses are listed in the schedule. *All fees are subject to change without notice.*

In special cases a deferred payment contract may be arranged. For such a contract the minimum amount due at registration is either \$45 or 40 per cent of the total fee (whichever is the larger) plus a deferred fee of \$5. This contract must be fulfilled by the end of the fourth week of classes (second week in summer).

**Refunds.** Whenever registration in a course is deemed insufficient, the regional campus reserves the right to withdraw the course and refund all fees.

Limited refunds, based on the *date of receipt of the written application* for withdrawal, will be made in accordance with the following schedule:

<i>First and Second Semesters</i>	<i>Refund</i>
Withdrawals before the end of the first week of semester	100%*
Withdrawals before the end of the second week of semester	75%
Withdrawals before the end of the third week of semester	50%
Withdrawals before the end of the fourth week of semester	25%
<i>Summer Session</i>	
Withdrawals before the end of the first week of session	100%*
Withdrawals before the end of the second week of session	50%

Refunds will not be made after the end of the fourth week of a semester or after the second week of a summer session. Refunds will not be made for noncredit registrations, lecture courses, certain courses which are permitted to carry with low or limited registration, or laboratory fees.

## FINANCIAL AIDS

**Scholarships.** Recipients of most Indiana University scholarships may use them at the regional campuses. Applications for freshman scholarships must be made to

\* Less \$3 registration fee.



the Director of Scholarships and Financial Aids in Bloomington. Application blanks are available at the local office for upperclass scholarships and for special scholarships. The academic counselor will usually have information concerning all currently available scholarships.

**Service Awards.** Each regional campus names for these awards several recent high school graduates, on the basis of their scholarship and financial need and usually on the recommendation of the high school principal. Each recipient is provided employment at the campus for several hours each week. Information concerning these awards may be obtained from the high school counselor or the academic counselor of the regional campus.

**State Vocational Rehabilitation.** Physically handicapped students seeking financial aid should make application to the State Vocational Rehabilitation Department, Indianapolis, Indiana.

**Educational Benefits for Veterans and Military Personnel.** Qualified students may enroll at Indiana University with educational benefits under Public Laws 550 (to January 31, 1965), 815, 894, and 634. Public Law 550 provides education and training assistance to veterans of the Korean conflict who were in the service after June 27, 1950, and prior to January 31, 1955. Its benefits expire on January 31, 1965. Public Law 815 provides assistance to disabled peace-time service personnel. Public Law 894 provides benefits for disabled veterans of the Korean conflict. Public Law 634, the War Orphans Assistance Act, provides educational benefits for all children of veterans who died of a service-connected disability, including those in World War I, World War II, and the Korean conflict. Such children must be high school graduates between the ages of eighteen and twenty-three and must be counseled by the Veterans Administration. For details as to financial benefits and procedures for registration under the various Veterans Educational Benefit Laws, students should consult with both the officials of the local Veterans Administration Offices and the officials of the University regional campuses well in advance of the beginning of the semester of anticipated registration.

Military personnel who take classes while on active duty may receive financial assistance from their service branch in partial payment of fees. Applications for these educational benefits must be made to the appropriate military officials.

**Bank Loans.** The Indiana Bankers Association has announced a loan plan whereby qualified students may borrow money for higher education through their local banks. Information as to the nature of and requirements for such loans may be secured from local bank officials.

**The National Defense Student Loan Program.** Indiana University participates in the National Defense Student Loan Program. Full-time students at the regional campuses are eligible to apply for these loans.

Application blanks and detailed information may be obtained from the Office of Scholarships and Financial Aids, Indiana University, Bloomington, Indiana, or from the local campus office.

**Other Funds.** Many local civic and service organizations provide loan funds and/or scholarships for college students. Information concerning these may be secured from the organizations or from the regional campus office.

Some businesses and industries give financial aid to employees enrolling in college courses.

## STUDENT HONORS AND ACTIVITIES

Full-time freshman students and those part-time freshmen with an accumulation of twelve hours who earn a B average or higher (3.0 credit points) are placed on the Dean's List and are recognized at Founders' Day ceremonies held on the Bloomington Campus, as are also the upperclassmen whose averages are 3.3 credit points or higher.

Honors dinners or other ceremonies are held at the regional campuses for additional recognition of these honor students and for the announcement of scholarship awards.

The regional campuses have student organizations of various kinds—student councils, academic clubs, and others. Students are encouraged to participate. Some campuses have local chapters of Phi Eta Sigma and Alpha Lambda Delta, honorary societies for men and women, respectively. Some also have a local chapter of Alpha Delta Kappa, Division honorary for freshmen.

Students may participate in many of the activities on the Bloomington Campus. Full-time students are eligible for student rates for all athletic activities on the campus. For further information regarding the procedure for purchasing such tickets, inquire at the regional campus office.



## Undergraduate Degree Programs

On the following pages requirements for the first two years toward baccalaureate degrees at Indiana University are stated in abbreviated form. Complete degree requirements are detailed in University bulletins on file in the regional campus counselor's office. You may obtain a copy by writing directly to the Office of Records and Admissions, Indiana University, Bloomington, Indiana.

Students enrolling at the regional campuses who plan to apply their credits on degrees at other institutions should confer with or write the institution of their choice for advice.

Students working toward degrees at Purdue University will find that a select number of Purdue courses are offered cooperatively at some of the Indiana University regional campuses. Certain Indiana University courses are also applicable toward degrees at Purdue University. At registration Purdue University counselors are available at some of the campuses. In all cases students should seek advice from counselors of the appropriate Purdue University school in Lafayette.

The following outlines of requirements for Indiana University degrees are suggestions only. The courses listed include required courses and other recommendations for freshmen and sophomores. In some cases students need not follow the exact sequence listed.

### COLLEGE OF ARTS AND SCIENCES

#### The Bachelor of Arts Degree

	Hours
Elementary Composition I-II, W131-W132 (or W140) .....	4
Foreign language, see page 23 (or proficiency) .....	18
Sciences* .....	15
Social sciences, literature, philosophy, and the arts† .....	18
Concentration group or electives‡ .....	5-10

\* Group III: Sciences. Every student must complete fifteen hours from the courses listed in the two groups that follow, with a minimum of five hours in each group and not fewer than five hours in any one department (from the *Bulletin of the College of Arts and Sciences*).

#### A. PHYSICAL SCIENCES

Astronomy: A100 and A105, A220 and A390  
 Chemistry: C100, C101, C102, C105, C106  
 Geography: G105 and G106, or G107  
 Geology: G100, G105, G106, G200  
 Mathematics: M105, M107, M113, M115, M117, M118, M131-M132, M211-M212, or more advanced courses  
 Physics: P100, P201, P202, P221, P222

#### B. BIOLOGICAL SCIENCES

Anatomy: A210, A464  
 Anthropology: A311  
 Bacteriology: B200, B205, B310  
 Biology: B100  
 Botany: B101, B203, B330, B370  
 Physiology: P204 or P310, P409, P413  
 Psychology: P101-P111, P102-P112  
 Zoology: Z103, Z104, Z215, Z364

The student may not count both Geography G105-G106 or G107 and Geology G100 nor more than ten hours of any combination of geography and psychology.

The student may not receive credit for Physics P100, if he has passed Physics P201-P202 or P221-P222.

The student who takes Biology B100 will not receive credit in Botany B101 or Zoology Z103.

The student may apply psychology toward the Group III B requirement only if Psychology P101 is followed by Psychology P111, or P102 by P112.

† Group IV: Social Sciences, Literature, Philosophy, and the Arts. Every student must complete eighteen hours of the listed courses in three of the departments below, including six hours from one department in Group A, six hours from one department in Group B, and six hours from a third department in either Group A or B. Where a sequence is listed, it must be followed. Sequences are indicated by a hyphen between courses.

#### A. SOCIAL SCIENCES

Anthropology: A103-A104, A303-A304

(Footnote continued on page 29)

## The Bachelor of Science Degree

Several curricula leading to the degree Bachelor of Science are offered in the College of Arts and Sciences. The basic requirements in most cases are the same as for A.B. candidates, except that a foreign language is not always required. See departmental statements in the *Bulletin of the College of Arts and Sciences*. B.S. degrees are offered in the following fields:

Chemistry  
 Dentistry  
 Geology  
 Home Economics

Law  
 Nursing  
 Optometry  
 Physics

Police Administration  
 Radio and Television  
 Social Service  
 Traffic Safety Administration

## PREPROFESSIONAL CURRICULA

### PREMEDICINE

Three years, or ninety semester hours, of collegiate work are required of all students for matriculation in the School of Medicine. Approximately two years of this work, including required subjects, may be done at the Indiana University regional campuses. See *Bulletin of the School of Medicine* for further information.

Of the ninety hours, approximately sixty from the following may be taken:

	Hours		Hours
English Composition W131-W132 .....	4	Physics P201-P202 .....	10
Foreign language (elective) .....	16-19	Mathematics M107, M113 .....	3-5
Chemistry, General (C105, C106) and Organic C341 (including aliphatic and aromatic compounds) .....	15	Speech S121 (recommended but not required) .....	2
Animal Biology Z103 and Developmental Anatomy Z215 .....	10	Group IV .....	18

The record must be qualitatively satisfactory.

### PREDENTISTRY

Two years, or sixty semester hours, of collegiate work are required of all students for admission to the School of Dentistry. This work may be taken at an Indiana University regional campus, provided the required courses are offered.

Economics: E201-E202, E300

Geography: G210 and G313

Government: G101-G102, G103-G104

History: H103-H104, H105-H106, H305-H306-H307, H308-H309

Sociology: S161, and S162 or S163

#### B. LITERATURE, PHILOSOPHY, AND THE ARTS

The Arts: Comparative Literature C225, Fine Arts H100, Music M174, Speech S240 (any three)

Classics: C250 and C260

Comparative Literature: Third- or fourth-year courses

Comparative Religion: C153-C154

English: L101 and L102

Fine Arts: Courses in history of art

Greek or Latin: Second-, third-, or fourth-year courses of a literary character

Modern Languages: Third- or fourth-year courses of a literary character

Music: M101 and M102

Philosophy: Six hours from the total departmental offering including at least one of P100, P240,

P250, P301, P302, or P350

Russian: R305 and R306, or R363 and R364

Speech and Theatre: S247-S248

‡ Group V: Concentration Group. A student's field of concentration may be chosen earlier, but must be chosen at the beginning of his junior year. At least 45 hours is required in the group, with at least 25 hours in the major subject, 10 hours in a first minor, and 5 hours in a second minor, if the latter is chosen.

Group VI: Electives to make a minimum total of 122 semester hours. A student may not count more than twenty (20) hours of course work taken outside the College of Arts and Sciences. These may include a maximum of twelve (12) hours in business education and office management and certain other maxima as listed in the *Bulletin of the College of Arts and Sciences*.



The following required courses are usually available:

	Hours		Hours
Chemistry C105, C106, C341 (General and Organic) .....	15	Psychology P101 .....	3
English Composition W131-W132 .....	4	Foreign language .....	10-18
Zoology Z103, Z215 .....	10	Group IV A (in one department) .....	6-12
Mathematics M107, M113 .....	5	Group IV B (in one department) .....	6-12
Physics P201, P202 .....	10	Classics C209 (strongly recommended) .....	2

### MEDICAL TECHNOLOGY

At least one year of the work required for the B.S. degree in medical technology may be taken at a regional campus.

The following required courses are usually available:

	Hours		Hours
English Composition W131-W132 .....	4	Anthropology, economics, geography, government, sociology, or business .....	6
Chemistry C105, C106, C341 .....	15	History, literature, philosophy, speech, Music M174, or Art H100 .....	6
Physics P100 .....	5		
Zoology Z103 .....	5		

### PREOPTOMETRY

Indiana University offers a five-year program leading to a degree in optometry. During the two-year preoptometry program the student must complete sixty-two semester hours of work (two of which may be in physical education).

The required courses are as follows:

	Hours		Hours
English Composition W131-W132 .....	4	Zoology Z103, Z215 .....	10
Mathematics M107, M113, M131 .....	7	Chemistry C105-C106 .....	10
Physics P201-P202 .....	10	Group IV A .....	6
Psychology P101, P102 or P111 .....	5-6	Group IV B .....	6

### PREPHARMACY

Indiana University does not give a degree in pharmacy; the courses suggested below are applicable at most institutions:

	Hours		Hours
Chemistry C105 and C106 .....	10	Freshman Literature L101 .....	3
Mathematics M107 and M113 or M131-M132 .....	4-5	Economics E201 .....	3
Zoology Z103 and Z215 .....	10	History H103-H104 or H105-H106 .....	6
English Composition W131-W132 .....	4	Physics P201-P202 .....	10

### DIVISION OF SOCIAL SERVICE

In cooperation with other departments of the College of Arts and Sciences, the Division of Social Service has prepared a program called a "Concentration Group in Social Service." This program provides a good general education with a concentration of study in the social sciences.

The following are required courses for an A.B. or B.S. degree:

	Hours		Hours
English W131-W132 .....	4	Government G103-G104 .....	6
Speech S121-S122, or journalism, or advanced composition .....	4	History H105-H106 or H337-H338 .....	6
Foreign language .....	0-18	Psychology P101-P102 .....	6
Mathematics and physiology or zoology .....	10-15	Sociology S161, S162, or S163 .....	6
Economics E201-E202, or E300 .....	5-6	Sociology S356 .....	3
		Group IV B .....	6-12

Suggested courses include the following:

Anthropology A303-A304, A475; Economics E360, E370, E410, E420; Government G305-G306, G321; History H103-H104, H347-H348, H363-H364, H373-H374; Psychology P234, P316, P319; Sociology S305, S307, S309, S325, S328, S416.

### SCHOOL OF BUSINESS

All undergraduate curricula in the School of Business consist essentially of three parts: (1) the general education core, (2) the basic business administration core, and (3) the advanced professional courses in business administration.

### General Program of the Freshman Year

Students planning to enter undergraduate study in the School of Business should take the following courses during the first year:

	Hours		Hours
English W131-W132 .....	4	Laboratory science .....	5
Humanities (English L101, L102, Philosophy P100, P240, P250, or post-freshman foreign language) .....	6	Anatomy A210; Astronomy A100, A105; Bacteriology B200, B205; Biology B100; Botany B101; Chemistry C100, C101, C105; Geography G107; Geology G100, G105; Physics P100, P201; Physiology P204; Psychology P101 and P111, or P105; or Zoology Z103.	
History (other than American history) .....	6		
Mathematics M115 or M117 or M105 or M107 or equivalent .....	0-5		
Speech S121 .....	2		
Electives .....	0-7		

A student electing Psychology P101 and P111 to satisfy the laboratory science requirement will elect six other credits from social and behavioral sciences.

### General Program of the Sophomore Year

The following courses, in addition to those listed for the freshman year, should be completed by the end of the sophomore year:

	Hours		Hours
Government G103-G104 or History H105-H106 .....	6	Social and behavioral sciences (Psychology P101, P102; Sociology S161, S162, S163; Anthropology A103, A104, A303, A304; or Geography G210) .....	6
Business A201-A202 .....	6	Electives .....	3-7
Economics E201-E202, E370 .....	9		

### General Program of the Junior Year

	Hours		Hours
Business F301 .....	3	Business W300 .....	3
Business L300 .....	3	Business W391 .....	0
Business M301 .....	3		

Other required courses and electives, depending upon the concentration\* chosen.

### SCHOOL OF EDUCATION

Requirements for the Bachelor of Science degree in Education (see the *Bulletin of the School of Education*) as well as completion of the designated professional education and subject matter courses must be met before an application for a teaching certificate can be made.

#### Elementary Teacher's Certificate

Courses required for the provisional elementary school teacher certificate and leading to the degree Bachelor of Science are the following:

	Hours
Arts .....	at least 10
Fine Arts H100, S255	
Music E241, M174	
Other music or art courses	
Language Arts .....	at least 15
English W131, L101-L102	
Linguistics L103 or an equivalent course	
English L390	
Other communications courses	
Mathematics .....	at least 8
Mathematics M104	
Mathematics M118, M261, M380, or other nonspecialized course in mathematics	
Science .....	at least 15
(at least 5 in Biological Science and 5 in Natural Science)	
Astronomy A100, Chemistry C100, or Physics P100	
Biology B100, Biology B101, or Zoology Z103	
Geography G105 or Geology G100	
Other courses: Botany B214 or others	
Social Studies .....	at least 15
Geography G210	
History H103-H104 or H105 or H106	
Sociology S161	
Other courses in anthropology, economics, or government (minimum, 6 hrs.)	

\* See *Bulletin of the School of Business*, pages 46-65.



	Hours
Professional Education .....	at least 27
Education E325, E335, E343*	
Education F100	
Education M323, M333	
Education M425 (to be taken during the senior year)	
Education P100 or Psychology P101	
Other Required Courses .....	10
Education P200	
HPER R180	
Home Economics H206	
Speech S160	
Electives or Subject Concentration	
The student is advised to obtain a minor (at least 24 hours) in at least one field.	

### Certificates for Secondary School Teachers

For a secondary school teacher certificate, provisional, a student must take the following required work:

A. General Education .....	at least 50
English W131 with a grade of C, and W132 or Linguistics L103 or Speech S121. (Take W132 if grade on W131 is less than C.) .....	4-5
Humanities .....	from these at least 16
(with at least 5 hours or two courses in one area)	
Classics courses	
Comparative Literature C225, C265	
English L101-L102, L203, L204, L205, L206	
English L213, L214, L215-L216, L219	
English L301, L302, L351-L352	
English W131-W132, W140	
Fine Arts H100, H223-H224	
Folklore F201, F384	
Foreign languages	
Journalism C200, J423	
Linguistics L103, L202, L203, L250, L303	
Music M101-M102, M174-M175	
Music R151, T111-T112	
Philosophy P100, P240, P250	
Radio and Television C200	
Recreation HPER R273	
Speech S121-S122, S240, S247-S248	
Life Sciences .....	from these at least 14
(with at least 5 hours or two courses in one area)	
Anatomy A210	
Astronomy A100, A105	
Bacteriology B200, B205	
Botany B100, B101, B203, B214	
Business C205	
Chemistry C100, C101-C102, C105, C106	
Economics E370	
Geography G105, G106, G107	
Geology G100, G103, G106, G200	
Health and Physical Education P397	
Mathematics M105, M107, M113, M115, M117	
Mathematics M118, M131-M132, M211-M212	
Physics P100, P201, P202, P221, P222	
Physiology P204, P310	
Psychology P101 and P111, P102 and P112	
Zoology Z103, Z105, Z364	
Social and Behavioral Sciences .....	from these at least 14
(with at least 5 hours or two courses in one area)	
Anthropology A103-A104, A303-A304	
Anthropology A311, A312, A350, A363, A395, A475	
Economics E110, E201-E202	
Economics E300, E310, E325, E420	
Geography G210, G313, G413	
Government G103-G104, G213	
History, Basic courses in	
History and Philosophy of Science X303	
Home Economics H206, H323	
Psychology P101-P102	
Social Service S304	
Sociology S161, S162, S163, S307, S309, S416	
B. Professional Education .....	at least 18
Education F100	
†Education M440-M479 (one course in each major area)	
†Education M480	
Psychology P101 or Education P100	
Education P240	
†Education S485	

\* These courses must be taken during the second semester of the junior year or the first semester of the senior year.

† Must be taken or registered for through the School of Education on the Bloomington Campus.

	Hours
C. Subject-matter Area	
To be certified a student must meet the following requirements:	
One or more major areas from among 21 subjects* .....	each at least 40
or ‡	
One or more area majors from the following fields .....	at least 52
Arts and Crafts	
Business Education	
Distributive Education	
Home Economics (Vocational)	
Physical Education and Health (Women)	
Social Studies	

The School of Education strongly recommends that every graduate not only meet the above requirements but have at least one minor area (24 hours) in which he is also qualified to teach. A beginning teacher with only one teaching area is often unable to secure a position in the location he desires. Minor areas are the same as major areas, except that music and speech correction and hearing therapy may not be elected as minors. Driver education or psychology may be elected as a minor, though not as a major.

### SCHOOL OF HEALTH, PHYSICAL EDUCATION, AND RECREATION

The general requirements for undergraduate HPER degrees can be met at the regional campuses. They vary among the various degrees; for specific courses see the *Bulletin of the School of Health, Physical Education, and Recreation*.

Generally the following courses are applicable:

	Hours		Hours
Elementary Composition W131-W132 .....	4	Education P200 or P240 .....	3
Introduction to Teaching F100 .....	2	Nutrition H206 .....	2
Introductory Psychology P101 .....	3	Government, social sciences .....	6-9
Recreation Leadership R180 .....	2	Public Speaking S161 .....	2

### SCHOOL OF LAW

#### Prelaw

To be admitted to the School of Law, the applicant must have an A.B. or B.S. degree from an accredited college or university. See the requirements for an A.B. or B.S. degree in the College of Arts and Sciences or a B.S. degree in Business.

### SCHOOL OF MUSIC

The basic curriculum required for all music majors includes:

	Hours
Elementary Composition W131-W132 .....	4
Linguistics L103 or Public Speaking S121 .....	2
Anthropology, business, economics, geography, government, or sociology .....	5-6
History, comparative literature, English, fine arts, philosophy, or theatre .....	5-6
Natural sciences (biological or physical) .....	5
Professional education courses (for music education majors) .....	8
Instruction in applied music (piano, voice, orchestral instrument) may be arranged. See the academic counselor for information as to teachers, credit arrangements, etc.	

‡ Or a major area might be combined with an area major.

\* Major area subjects (see the Bulletin of the School of Education for the courses required for each):

Biology	Journalism
Business Education	Mathematics
a. Includes shorthand but not book-keeping	Music
b. Includes bookkeeping but not short-hand	Physical Education and Health
Chemistry	Physics
Earth science	Radio and Television
English	Recreation
Foreign languages (one language)	School Library and Audio-Visual Services
General science	Social Studies
Health and Safety	Speech
Home Economics (General)	Speech Correction and Hearing Therapy



## Two-Year Certificate Programs

Indiana University provides six programs for which two-year certificates will be awarded, three by the College of Arts and Sciences and three by the School of Business:

### THE COLLEGE OF ARTS AND SCIENCES

- Certificate in the Humanities
- Certificate in the Sciences
- Certificate in the Social Sciences

### THE SCHOOL OF BUSINESS

- Certificate in Accounting
- Certificate in Management and Administration
- Certificate in Office Management

These certificates, each requiring approximately sixty semester hours of regular University courses as outlined below, are awarded to students whose accumulation of credits and residence status satisfy the requirements.

Students expecting to be awarded a certificate as of September 1 of a given year must submit certification requests no later than the beginning of the second semester of the previous academic year. Students completing their certificate work on the Bloomington Campus will submit requests to the office of the dean of the respective college or school; those completing their work elsewhere will submit requests to the director of the appropriate campus or center.

**Requirements.** The general requirements for all two-year certificate programs include: (1) admission as a regular student to Indiana University; (2) satisfactory completion of one of the certificate programs with an accumulative average of C or higher; (3) completion of at least thirty credit hours in residence at Indiana University (at any of the campuses), with at least fifteen hours at one campus.

The courses outlined for each of the certificates follow:

### COLLEGE OF ARTS AND SCIENCES CERTIFICATES

For each of the three Arts and Sciences certificates the same Basic Curriculum of 33-38 hours is required:

	Hours
English composition .....	2-4
Foreign languages .....	10
Ten credits to be selected from any one of the following languages: French, German, Greek, Italian, Latin, Portuguese, Russian, or Spanish.	
Sciences and mathematics .....	5-10
Five semester hours in a laboratory science to be selected from any courses exclusive of mathematics under Group III*	
If the student has not completed four semesters of algebra and one semester of trigonometry in high school, he must complete three to five hours of appropriate mathematics.	
Social sciences .....	6
Selected from any course sequence under Group IV A*	
Literature, philosophy, and the arts .....	6
Selected from any course sequence under Group IV B*	

#### Certificate in the Humanities

This certificate in the liberal arts is designed for those who wish to concentrate in the humanities within the two-year (60-semester-hour) program. The courses for this certificate meet the usual requirements for the first two years for most liberal arts degrees with a major in one of the humanities.

\* See note on pages 28-29.

	Hours
I. Basic Curriculum .....	33-38
II. Required courses in the humanities .....	22-27
A. Six hours of history if not taken as a part of the Basic Curriculum.	
B. Sixteen to twenty-one hours to be selected from courses in the humanities, twelve hours of which must be from one department. Elementary Composition W131, W132, W140, and English Literature L101 and L102 will not apply.	

#### Certificate in the Sciences

This certificate in the liberal arts is designed for those who wish to concentrate in the sciences within the two-year (60-semester-hour) program. The courses for this certificate meet the usual requirements for the first two years for most liberal arts degrees with a major in one of the sciences.

	Hours
I. Basic Curriculum* .....	23-28
II. Required courses in the sciences .....	32-37
A. Mathematics, above that required in the Basic Curriculum (Courses to be selected at the proper level for the student.)	
B. Physical and biological sciences, with a minimum of five hours in one or the other .....	
At least fifteen hours must be taken in one department.	
III. Foreign language .....	0-10
Foreign language is required for many degree programs. Students should consult the counselor.	

#### Certificate in the Social Sciences

This certificate in the liberal arts is designed for those who wish to concentrate in the social sciences within the two-year (60-semester-hour) program. The courses for this certificate meet the usual requirements for the first two years for most liberal arts degrees with a major in one of the social sciences.

	Hours
I. Basic Curriculum .....	33-38
II. Courses in the social sciences, twelve hours of which must be from one department .....	22-27

### SCHOOL OF BUSINESS CERTIFICATES

For each of the three School of Business certificates, the following general education courses are required:

	Credits
English W131-W132 .....	4
Government G103-G104, History H103-H104, History H105-H106, or History H107-H108 .....	6
English L101, L102; Philosophy P100, P240, P250; foreign language second year courses .....	6
Anthropology A103, A104; Geography G210; Psychology P101,† P102; Sociology S161, S162, or S163 .....	3
Laboratory science .....	5
Anatomy A210; Astronomy A100-A105; Bacteriology B200-B205; Biology B100; Botany B101; Chemistry C100, C101, or C105; Geography G105-G106 or G107; Geology G100 or G105; Physics P100 or P201; Physiology P204; Psychology P101-P111† or P105; or Zoology Z103.	
Mathematics M115, M117 (or M105, M107) .....	0-5

\* The Certificate in the Sciences requires 23-28 hours in the Basic Curriculum. The student has the option of completing ten hours in foreign language under the Sciences Certificate requirements.

† Psychology P101 cannot be double counted.



A student may meet the mathematics requirements by having completed in high school four semesters of algebra, or three semesters of algebra and one semester of trigonometry, or by having completed Mathematics M105 or M107 or equivalent courses.

### Certificate in Accounting

For the Certificate in Accounting the following will complete the requirements:

	Hours
General education courses .....	21-26
Business A201-A202, A205 .....	9
Business A211, A312 .....	6
Business W100 .....	3
Economics E201-E202 .....	6
Business A306 or A308 .....	3
Business F301, L300, M301, W300 or Economics E370 .....	3

### Certificate in Management and Administration

For the Certificate in Management and Administration the following will complete the requirements:

	Hours
General education courses .....	21-26
Business A201-A202, L300, W300, W100 .....	15
Economics E201-E202, E370 .....	9
Business F301, J340, M301, or P320 .....	3
Suggested electives: Business A228, F260, N300, R300, T300, or U300.	

### Certificate in Office Management

For the Certificate in Office Management the following will complete the requirements:

	Hours
General education courses .....	21-26
Business A201-A202 .....	6
Business C205 .....	1
Business C220, C225, C330 .....	6
Business C240, C250, C360 .....	9
Business C300 .....	2
Business W100, W204 .....	6
Economics E201-E202 .....	6

Students with typing and shorthand skills enter the courses at the appropriate course level. Other courses may be chosen from the following suggested electives: Business A228, C403, F260, L300, W300, Economics E370.

All programs are supplemented with electives to a maximum of 17 credits per semester. Physical education and military courses, if required, are in addition to the above listed courses.

## Graduate Degree Programs

Certain courses offered at regional campuses may be applied toward graduate degrees in the Graduate School, the School of Education, and the School of Health, Physical Education, and Recreation, provided the student has been admitted to the particular graduate school and provided he clears his proposed program with his departmental chairman. Requirements for the degrees Master of Arts for Teachers and Master of Science in Education are given below. Requirements for other graduate degrees may be found in the *Bulletins of the Graduate School, School of Education, and School of Health, Physical Education, and Recreation*.

### 1. Requirements for the degree Master of Arts for Teachers

- a. Thirty-six hours beyond the baccalaureate degree of which at least twenty shall be in the student's major teaching field, the rest to be allocated either to additional work in the major field or in one or more supporting subjects.
- b. Although not specifically required, education may be offered as a minor.
- c. Of the thirty-six hours, thirty must be completed while enrolled on campuses of Indiana University, with at least one semester, or two summer sessions, of full-time work taken on the Bloomington Campus.
- d. A grade average of B or higher.
- e. Each candidate for the degree must possess a teacher's certificate by the time the degree is conferred.
- f. On approval of the Dean of the Graduate School, a maximum of six hours of undergraduate courses may be applied toward this degree.
- g. All requirements must be completed within a five-year period.

### 2. Requirements for the degree Master of Science in Education

- a. Upon completion of a minimum of twelve semester hours of graduate work at Indiana University, students may apply for candidacy for the Master of Science in Education degree provided they have (1) maintained at least a B average in all work taken after completing the requirements for the baccalaureate degree, and (2) passed certain examinations designed to measure the abilities expected of candidates for the Master of Science in Education degree, such as accepted tests in graduate aptitude and English proficiency.
- b. Thirty-six hours beyond the baccalaureate degree of which not more than six hours may be undergraduate. (Thirty hours are required with a thesis.)
- c. Fifteen hours of graduate education courses including T500, P510 (or P500 if advisable), and one of the following: F500, H503, H504, H530 (or H535 if advisable).
- d. Students must complete a major field of specialization selected from the following list: adult education, audio-visual communications and radio and television education, business education, educational research, educational psychology, elementary education, guidance, higher education (college personnel only), history and theory of education, reading, school administration,\* secondary education, special education, and vocational education. Guide sheets setting forth requirements for majors in the various fields may be secured from the Office of the Graduate Division of the School of Education or from the local academic counselor.

\* Election of a major in school administration is limited and must be approved by the Director of Graduate Studies in the School of Education.



- e. A minimum of nine hours (a maximum of 21 hours) in courses outside the field of education. If conversion of a certificate to professional is involved, then 9 hours in each area of certification is required.
- f. Fifteen hours, the equivalent of one semester, in residence on the Bloomington Campus.
- g. A grade average of B or higher.
- h. All requirements must be completed within a period of six calendar years.
- i. Up to six hours of approved credit taken at another institution may be transferred if the average grade in all graduate work is B or higher.

### 3. Requirements for the degree Specialist in Education.

Indiana University has made available special programs leading to the Ed.S. degree, in order to enable a student to develop advanced competence in an area of specialization, with emphasis being placed on practice. A total of sixty-five hours is required. For information write the Graduate Division of the School of Education.

## Joint Course Offerings with Purdue University

### PURDUE FRESHMAN ENGINEERING

Indiana University and Purdue University jointly offer the Purdue University freshman year of engineering at the South Bend and Southeastern Campuses of Indiana University. A student who satisfactorily completes this program may transfer to the Lafayette campus of Purdue University for the sophomore year in any of the schools of engineering or in mathematical science. However, he will apply to Purdue as a transfer student and must meet Purdue's requirements for a transfer student.

If a transfer from an Indiana Campus to Purdue is approved, the following Purdue supervised courses will transfer with both credit and grade: CE 113, DM212, and PHYS P 152. All other courses will transfer with credit only.

A student may wish to transfer to Purdue into a school other than engineering or mathematics. If so, he should consult with the Purdue Office of Admissions.

A student who enters this program must meet the usual requirements for admission to engineering at Purdue University. He will also be required to take placement tests for proper assignments. Full-time students should complete 18 to 19 hours per semester in order to be ready for the sophomore year of engineering at Purdue University.

#### First Semester

	Hours
W131 Elementary Composition I (I.U.) .....	2
*C105 General Chemistry (I.U.) .....	5
†M215 Analytic Geometry and Calculus I (I.U.) .....	5
‡CE118 Engineering Graphics (Purdue) .....	3
§Non-Technical Electives .....	3-4
(To make a total of 18-19 hours per semester)	

#### Second Semester

W132 Elementary Composition II (I.U.) .....	2
*C106 Inorganic Chemistry and Qualitative Analysis (I.U.) .....	5
†M216 Analytic Geometry and Calculus II (I.U.) .....	5
PHYS 152 Mechanics (Purdue) .....	4
Speech S121 Public Speaking I (I.U.) .....	2
§Non-Technical Electives .....	0-2
(To make a total of 18-19 hours per semester)	

\* Students whose high school preparation for chemistry is inadequate as shown by Purdue Placement Tests will be required to complete C101, A Descriptive Survey of Chemistry (I.U.) 5 hrs., before taking C105. This course will not count toward the engineering degree.

† Students whose high school background for M215 and M216 seems inadequate as shown by placement tests will be required to complete M107 (or M105) College Algebra (I.U.) 3 to 5 hrs., and M113 Trigonometry 2 hrs., before enrolling in M215 and M216. These courses will not count toward the engineering degree.

‡ Students enrolling in CE118 must be eligible for or enrolled in Mathematics M215.

§ The Purdue University Schools of Engineering require a minimum of 18 hours in a nontechnical program. At least 12 of the 18 hours must be in one of these two areas: the humanities or the social sciences; the remaining six hours must be in the other of these two areas. There must be a continuation of courses in the same department of at least 6 hours.

Courses which will meet these requirements include:

#### Humanities

English—L101, L102, and advanced courses  
 Foreign Language—French, Spanish, or German  
 Philosophy—P100, P200, P240, P250, or advanced courses  
 Fine Arts—H100, H223, H224, S235, S255, S256, S333  
 Speech and Theatre—S122, S223, S343

#### Social Sciences

History—H103, H104, H105, H106, and advanced courses  
 Government—G103, G104, and advanced courses  
 Sociology—S161, S162, S163, and advanced courses  
 Psychology—P101, P102, and advanced courses  
 Economics—E201, E202, and advanced courses



## PURDUE ASSOCIATE DEGREE IN MECHANICAL TECHNOLOGY

Indiana University and Purdue University jointly offer the Purdue University first year in Mechanical Engineering Technology at one campus. (The second year may be offered later.) A student who satisfactorily completes this program may transfer to the Regional Campuses of Purdue University for the final year of this two-year program. This program may also be applied toward the B.S. degree in Industrial Education at Purdue University and in some cases toward various degrees and certificates at Indiana University.

A student who enters this program must meet the usual requirements for admission in applied technology at Purdue University. He will also be required to take suitable placement tests for proper assignments. Full-time students should enroll in 18 to 19 hours per semester to complete the first year in Mechanical Engineering Technology. Part-time students should plan their programs with the Academic Counselor.

### First Semester

	Hours
W131 Elementary Composition I (I.U.) .....	2
CE118 Engineering Graphics (Purdue) .....	3
or	
CE110 Drafting Fundamentals (Purdue) .....	3
DM180 Materials and Processes (Purdue) .....	3
*M107 or M117 College Algebra (I.U.) .....	3
*M113 Trigonometry (I.U.) .....	2
P201 General Physics—Mechanics, Heat, and Sound (I.U.) .....	5
(Prerequisite or concurrent—Trigonometry)	
S161 Principles of Sociology (I.U.) .....	3
or	
P101 Introductory Psychology I (I.U.) .....	3

### Second Semester

W132 Elementary Composition II (I.U.) .....	2
P202 General Physics: Light, Electricity, and Magnetism (I.U.) .....	5
S121 Public Speaking I (I.U.) .....	2
or	
S223 Business and Professional Speaking (I.U.) .....	3
DM156 Graphical Computations (Purdue) .....	3
DM204 Production Drawing (Purdue) .....	3
CE113 Slide Rules and Graphs (Purdue) .....	1
DM212 Mechanics of Materials (Purdue) .....	4
L300 Business Law—Contracts (I.U.) .....	3

\* Students will be placed in Mathematics courses upon the basis of the Purdue Placement Tests in Mathematics. Those whose Mathematics background is inadequate will be required to complete M105 College Algebra and M113 Trigonometry. Students whose high school background includes College Algebra and Trigonometry and whose test scores are adequate will be placed in either M131-132 Plane Analytic Geometry I-II, or M215-216 Analytic Geometry and Calculus I-II.

## Descriptions of Credit Courses

The courses enumerated below represent the undergraduate offerings at the several regional campuses, but all are not offered at any one campus. Those numbered in the 100's are generally intended for freshmen, those in the 200's for sophomores, and those in the 300's and 400's for juniors and seniors respectively. For descriptions of graduate courses, see the Bulletins of the respective Schools.

### ALLIED HEALTH SCIENCES

#### E400 Public Health Education (3 cr.)

An introductory course to acquaint the students with the history, philosophy, and principles of public health education. Methods, techniques, and processes to prevent community health imbalance as applied through public health efforts are discussed, interpreted, and evaluated. Various procedures are studied which involve the development of practices to motivate the individual or group to participate directly or indirectly toward positive health action within the community.

#### E492 Public Health Nutrition (2 cr.)

An introductory course designed to give the students an understanding of the basic principles of nutrition. It includes lectures and laboratory sessions designed to consider such areas as: technical knowledge relating to dietary standards, physiological effect of metabolism, and public health aspects of food control. The course is planned to help the student gain an understanding of the nutritional needs for healthful living, to develop a better appreciation of the science of nutrition, and to acquire sufficient fundamental knowledge of nutrition to help him meet personal and professional requirements.

#### S321 Environmental Sanitation (3 cr.)

The broad objective of community-wide environmental control are discussed. Consideration is given to water, food, insects, rodents, air hygiene, housing, waste disposal, and radiological health. Laboratory periods in sanitary chemistry and bacteriology are included.

### ANTHROPOLOGY

#### A103 General Anthropology I (3 cr.)

An introductory course in the study of man, his biological evolution, and archaeological history through the stone and metal ages.

#### A104 General Anthropology II (3 cr.)

An introductory course in world ethnography, linguistic groupings, and social processes that influence behavior.

#### A303 Survey of Anthropology: Culture, Language, Personality (3 cr.)

Introduction to contemporary primitive peoples: culture patterns, diffusion, and functions. Language as structure and social reality. Modal personality and deviants as reflected in primitive cultures. Not open to students who have had A104.

#### A304 Survey of Anthropology: Prehistory and Races (3 cr.)

An introductory course for more advanced students. Man's place in nature, the emergence of man and contemporary races, the development of culture from the Palaeolithic onward, and a consideration of problems growing out of the interaction of biological and cultural phenomena. Not open to students who have had A103.

### ASTRONOMY

#### A100 The Solar System (3 cr.)

The celestial sphere and constellation study, measurement of time, astronomical instruments, the earth as a planet, the moon, eclipses, planets and their satellites, comets, meteors, and the various theories of the origin of the solar system.

#### A105 Stellar Astronomy (3 cr.)

The sun as a star, physical properties of the stars, basic principles of spectroscopy as applied to astronomy, double stars, variable stars, star clusters, gaseous nebulae, stellar motions and distribution, the Milky Way system, the external galaxies, the expanding universe, and the cosmic time scale.



**BACTERIOLOGY****B200 Microbiology in Relation to Man: Lectures (3 cr.)**

Prerequisite, sophomore standing. Concerns the nature and activities of microorganisms and their relationship to the welfare of man. Includes consideration of the importance of microorganisms in food preparation and preservation, soil fertility, sanitation, public health, and diseases of man, animals, and plants, and the economy of nature.

**BOTANY****B101 Plant Biology (5 cr.)**

Open to all students except those who have had Biology B100. Fundamental principles of biology as illustrated by plants: characteristics of living matter, nutrition, growth, responses to environment, reproduction, basic principles of heredity.

**B214 Nature Study (2 cr.)**

Open to all students. An introduction to natural science with special emphasis on the biological aspects of living things; interrelationships between plants and animals in selected ecological areas. The laboratory includes field and nature museum studies; identification and classification of plants and animals; life histories; characteristics of the living world in water, field, and woodland; methods of collecting and preserving materials. A nature museum laboratory includes exhibition methods for school science centers.

**BUSINESS****A201 Introduction to Management Accounting I (3 cr.)**

Prerequisite, twenty-five hours of university credit. Basic concepts and procedures; and the accounting contributions to managerial planning and control, with emphasis on production management accounting.

**A202 Introduction to Management Accounting II (3 cr.)**

Prerequisite, A201. Accounting contributions to managerial planning and control, with emphasis on marketing management accounting and financial management accounting; and external utilization of accounting data.

**A205 Management Accounting III (3 cr.)**

Prerequisite, A200 or A202. A study of internal managerial uses of quantitative data including planning (budgeting), controlling, and decision-making; and external financial analysis.

**A211 Intermediate Accounting I (3 cr.)**

Prerequisites, A200 or A201 and A202 or permission of instructor. Accounting cycle and statements, cash, receivables, inventories, plant and equipment, intangible assets, investments, liabilities, capital stock and surplus, and statement analysis.

**A228 Personal Tax Problems (3 cr.)**

Designed to familiarize the nonaccounting majors with simple personal tax problems. Not open to accounting majors. Course covers federal income tax for the individual, partnership, and small corporation. Some attention to estate and gift taxation. Social security and Indiana gross income taxes are included.

**A306 Advanced Industrial Cost Accounting (3 cr.)**

Prerequisite, A205. A study of standard costs, process costs, job order costs, and flexible budgets, with emphasis on the technical accounting aspects and upon presentation of the interpreted data to management.

**A308 Income Tax (3 cr.)**

Prerequisites, A200 or A201 and A202. Study of the Internal Revenue Code and Regulations. Emphasis on income, exclusions from income, deductions, and credits of various types.

**A309 Advanced Income Tax (3 cr.)**

Prerequisites, A308 and A312. Continued study of the Internal Revenue Code and Regulations with stress on the advanced aspects of incomes, deductions, exclusions, and credits, especially as they are related to the tax problems of estates, trusts, partnerships, and corporations. Emphasis is placed on tax forms and practical tax problem situations.

**A312 Intermediate Accounting II (3 cr.)**

Prerequisite, A211 or permission of instructor. Statement of application of funds, partnerships, venture accounting, consignments, installment sales, insurance, branch accounting, parent and subsidiary financial statements, estates and trusts, statement of affairs, and foreign exchange.

**A313 Advanced Accounting Problems I (3 cr.)**

Prerequisites, A211-A312. Preparation of students for actual practice and C.P.A. examination. Topics include preparation, revision, and correction of statements; comparative statements; investments; fixed assets; liabilities; funds and reserves; compound interest and annuities; and statement of application of funds.

**A315 Fund Accounting (3 cr.)**

Prerequisites, A210 or A211 and A312. Deals with the specialized procedures and the distinctive methods that should be followed in governmental accounting to exhibit correctly and intelligently the financial facts; treats typical fund accounts, revenues, appropriations, expenditures, assessments, etc.; includes study of accounting for institutions; introduces governmental auditing.

**A404 Auditing (3 cr.)**

Prerequisites, A205, A210 or A211-A312, and senior standing. Public accounting organization and operation; internal control, internal auditing; verification of balance sheet and operating accounts; the auditor's report or opinion. Auditing principles illustrated by a comprehensive practice case.

**A414 Advanced Accounting Problems II (3 cr.)**

Prerequisite, A312. Continuation of A313, covering branch accounting, mergers and consolidations, foreign exchange, ventures, consignments, installment sales, insurance, realization and liquidation statements, and estates and trusts.

**C205 The Use of Business Machines (1 cr.)**

Operation of adding machines and key-driven, rotary, manual, semiautomatic, and automatic calculators; application of calculating machines to problems in accounting, payroll, cost calculations, and other business computations; use of machines in all statistical computations.

**\*C220 Beginning Typewriting (2 cr.)**

A dual-purpose course for students throughout the University who have had no previous typewriting experience. Serves as a terminal course for students desiring short-term, elementary training for other than job purposes and as a background course for those students desiring further training in other typewriting areas.

**\*C225 Intermediate Typewriting (2 cr.)**

A prerequisite to Advanced Typewriting C330. A course for students who have had previous training but are without sufficient skill or background for advanced work. Emphasizes intensive skill building as well as training in job competencies. Introduces basic office typing problems and stresses fundamentals needed in office employment.

**\*C240 Beginning Shorthand (3 cr.)**

Prerequisite, C220, or taken concurrently with C220. Thorough coverage of principles of *Gregg Shorthand Simplified*; introduction to speed building. For students without previous instruction in shorthand or with inadequate preparation for C250. Plan of instruction permits students to progress as rapidly as they are able.

**\*C250 Intermediate Shorthand (3 cr.)**

Prerequisites, C240 or C242 with a minimum grade of C and prior or concurrent enrollment in C330. Comprehensive study of principles and theory of *Gregg Shorthand Simplified*; dictation speed building and vocabulary building emphasized; introduction to transcription; students are grouped for instruction according to dictation and transcription ability.

**C300 Office Management I (2 cr.)**

A general course covering principles of scientific office management and the responsibilities of office management for office services, office layout and space utilization, office furniture and equipment, machines and appliances, branch office management, office unions, office personnel problems, training of office workers, office costs, and office methods and procedures.

**F301 Principles of Finance I (3 cr.)**

Prerequisites, Economics E201-E202, Business A201-A202. Not open to students receiving credit in F310 (formerly F300). First half of a year's course in business finance from viewpoint of business manager, emphasizing use of financial statements, tools and concepts for measuring and planning for profitability and liquidity. Should be followed by F302.

**F302 Principles of Finance II (3 cr.)**

Prerequisites, F301, M301, W300. Second half of year's course in finance from a management viewpoint. (Students who have not had F301 but have successfully completed F310 may also enroll.) Course includes financial planning, working capital management, capital budgeting, dividend policy, and comprehensive problems.

\* These courses may be offered in two courses, each carrying one hour or one and one-half hours of credit respectively: C221-C222, C226-C227, C241-C242, and C251-C252.



**F260 Personal Finance (3 cr.)**

This course deals with the financial problems that people usually encounter in managing their own individual affairs. Major topics included are family budgeting, installment buying, insurance, home ownership, and investing in securities. Juniors and seniors in the School of Business may not take this course for credit.

**F420 Principles of Investment (3 cr.)**

Prerequisite, F301 or F310. Problems of investment policy are the principal concern in this course. It includes study of types of investment risks, an introduction to security analysis, the analysis of investment requirements, and kinds of investment policies. Problems of both individual and institutional investors are considered.

**J340 Personnel Management (3 cr.)**

Prerequisite, W300 or permission of instructor. Deals with objectives, policies, and activities in typical personnel programs, the way they are organized, and some of the problems encountered in their effective administration. Includes recruiting, selecting, placing, training, safety, health, employee services, wages and hours, labor management relations, and personnel research.

**K423 Survey of Electronic Data Processing Methods (3 cr.)**

Designed to provide an understanding of the effect of the electronic computer upon business management and organization. Includes an introduction to principles of electronic computers, illustrations of their use, and introduction to data processing system design.

**L300 Business Law—Contracts (3 cr.)**

Prerequisite, junior standing. Gives an understanding of the nature of legal institutions, of the essentials of a binding contract, of the legal rules relating to the performance of a contract, of remedies granted in event of breach of contract, and of rights acquired by assignment of contract.

**L303 Business Law—Property, Sales, and Negotiable Instruments (3 cr.)**

Prerequisite, L300. Gives an understanding of the legal problems encountered in the marketing of goods. Treats of the nature of property, the sales of personal property, the securing of credit granted, and the nature and use of negotiable instruments.

**L305 Business Law—Agency, Partnerships, and Corporation (3 cr.)**

Prerequisite, L300. Various relations of principal, agent, and third persons are treated. Agency law is integrated with the law involving the creation, operation, and termination of partnerships and corporations. The rights and liabilities of persons engaged in, having an interest in, or dealing with such business organizations are thoroughly analyzed.

**L308 Business Law—Real Estate Law (3 cr.)**

Prerequisite, L300. Deals with the special legal problems incident to the ownership and the transfer of real property, such as the classification of property, requirements of a valid deed, nature of an escrow, landlord and tenant relationship, restrictive covenants in deeds, zoning ordinances, and brokerage contracts.

**M301 Principles of Marketing I (3 cr.)**

Prerequisite, Economics E201-E202. Studies the marketing function of the firm primarily from the standpoint of management, though social welfare considerations are also treated. Examines the marketing variables of product, channels, pricing, and promotion and relates them to the profitability, survival, and growth of the firm. Marketing institutions and their function in the economic system are also considered.

**M315 Principles of Advertising (3 cr.)**

Prerequisite, M301. A survey of the structure of advertising and the problems of advertising and promotion management from the point of view of the marketing manager.

**P320 Production Management (3 cr.)**

Prerequisite, Economics E370. A basic course in the production of goods and services. The major problems arising in both line and staff management of the production or operations function are identified and described. Analytical processes are developed for the solution of these major problems.

**R300 Principles of Real Estate (3 cr.)**

Prerequisites, Economics E201-E202. Real estate divisions and operations are related to location factors with special reference to the economic background of cities, city growth and structure, neighborhoods and districts; real estate market analysis; principal subdivisions of the real estate field. Attention is given to managerial policies of private enterprises and government agencies operating in the real estate field.

**R440 Real Estate Appraisals (3 cr.)**

Prerequisite, R300. The techniques and methods of appraising real property are studied in detail. The case method is used and is combined with field investigation.

**R443 Real Estate Administration (3 cr.)**

Prerequisite, R300. Case studies and seminar reports are used to develop an understanding of effective techniques of real estate utilization by the managers of business firms or specialists in the real estate field. The selection, development, management, financing, and renewal of commercial, industrial, and residential real estate are emphasized.

**W100 Business Administration: Introduction (3 cr.)**

An introduction to the study of business administration from the standpoint of the manager of a business firm operating in the contemporary economic, political, and social environment.

**W204 Business Communications (3 cr.)**

Prerequisites, forty-five hours and English W132. A study of objectives, methods, channels, media, and forms of communication in business; consideration of communication theory and practice; discussion and laboratory practice in the use of correct, forceful English in written business communication; preparation of letters, memorandum forms, reports, advertising, news stories, and publicity.

**W300 Principles of Management and Administration (3 cr.)**

Prerequisite, Economics E201-E202. Designed to prepare students in the fundamentals of all phases of administrative staff and operative management. Successful management principles and techniques are given for all fields of business. These principles include: business objectives, policies, functions, executive leadership, organization structure and morale, operative procedures, and control procedures.

**W391 Comprehensive Examination (0 cr.)**

Required of all degree-seeking students during the semester of the junior year after completion of the seven basic or "core" courses. Satisfactory completion of the examination is a prerequisite to pursuing senior-level courses in business and economics.

**CHEMISTRY****C100 Chemistry in the Modern World (5 cr.)**

A study of the nature of chemical changes. Emphasizes chemistry in health and everyday living. This course cannot serve as a prerequisite for any other course in chemistry. Lectures, discussion-recitation, and laboratory.

**C101 A Descriptive Survey of Chemistry I (5 cr.)**

Presents essential principles of chemistry. To be followed by C102. A grade of A is necessary for admission to C106. Lecture, discussion-recitation, and laboratory.

**C102 A Descriptive Survey of Chemistry II (5 cr.)**

Prerequisite, C101. Continuation of C101. An introduction to organic chemistry and a survey of the simplest types of organic compounds. This course cannot be used as a prerequisite for any other course in chemistry. Lecture, recitation, and laboratory.

**C105 General Chemistry (5 cr.)**

Prerequisite, two years of high school algebra or Mathematics M107, which may be taken concurrently. For chemistry majors and others intending to continue the study of chemistry beyond the first year. Lecture, recitation, and laboratory.

**C106 Inorganic Chemistry and Qualitative Analysis (5 cr.)**

Prerequisites, C105, or C101 with grade of A, and Mathematics M107 or its equivalent. Further study of the principles of chemistry and of inorganic chemistry, particularly of the metallic elements, along with systematic qualitative analysis for the common metals and acid radicals. Lecture, recitation, and laboratory.

**C205 Quantitative Chemistry (5 cr.)**

Prerequisite, C106. An introduction to the principles of quantitative analysis and physical chemistry for students whose mathematical preparation is not adequate for C310 and C361 and who are not taking a professional major in chemistry. The laboratory includes quantitative analysis.

**C341 Organic Chemistry I (5 cr.)**

Prerequisite, C106. An introduction to the chemistry of carbon compounds. Nomenclature; qualitative theory of valence, structure, and reactions. Syntheses and reactions of all major classes of mono-functional compounds. The laboratory work consists of instruction in fundamental techniques and the use of general synthetic methods.

**C342 Organic Chemistry II (5 cr. or 3 cr. without laboratory)**

Prerequisite, C341. Syntheses and reactions of polyfunctional compounds, natural and industrial products; physical and chemical methods of identification of organic compounds. The laboratory work consists of the preparation and identification of organic compounds. It may not be omitted without the consent of the instructor.



## COMPARATIVE LITERATURE

## C325 The Renaissance (3 cr.)

Prerequisite, six hours of literature or junior or senior standing. A study of such major writers of the period as Petrarch, Machiavelli, Castiglione, Ariosto, Erasmus, More, Rabelais, Ronsard, Montaigne, Shakespeare, and Cervantes. Emphasis is placed on the Renaissance as a whole rather than on individual literatures.

## C329 The Age of Enlightenment (3 cr.)

Prerequisite, six hours of literature or junior or senior standing. A study of western European literature from the late seventeenth century to the middle of the eighteenth century, including works by Racine, Voltaire, Pope, Johnson, Goethe, Calderón, Goldoni, and others. Emphasis on the common trends representative of the enlightenment as a whole, as it spread across Europe.

## COMPARATIVE RELIGION

## R313-R314 History of Christian Thought I-II (3-3 cr.)

No prerequisite for either semester. A study of the rise and development of fundamental beliefs in the history of Christianity. I. The early church to the Reformation area. II. Modern Christian thought from the Reformation to the present.

## ECONOMICS

## E110 Economic History (3 cr.)

Open only to freshmen and sophomores. A survey of American economic history studied against the background of the European agricultural, commercial, and industrial revolutions. Emphasis is placed upon the origin and development of modern economic institutions and problems.

## E201 Principles of Economics I (3 cr.)

Open to sophomores; open also to freshmen when so advised by the counselor. This course, with E202, constitutes a general introduction to economic principles and problems. Topics covered include: economic organization, production, consumption, distribution of wealth and income, money and banking, value and the pricing process, business cycles, risk and insurance, labor problems, problems of industrial monopoly, and international economic relations.

## E202 Principles of Economics II (3 cr.)

Prerequisite, E201.

## E340 Introduction to Labor Economics (3 cr.)

Prerequisites, E201-E202. A survey of the field of labor economics. The major topics discussed are: the economic problems of the wage earner in modern society; the structure, policies, and problems of labor organizations; employer and governmental policies affecting labor relations.

## E350 Money and Banking (3 cr.)

Prerequisites, E201-E202. Survey of the monetary and banking system of the United States, including consideration of problems of money and prices, of proper organization and functioning of commercial banking and Federal Reserve systems, of problems of monetary standards, and of credit control. Recent monetary and banking trends are emphasized.

## E370 Interpretation of Business and Economic Data (3 cr.)

A study of the nature and uses of statistical data in business and economics. Methods of tabular, graphic, and numerical analysis of quantitative data and interpretation of the findings. Lecture-recitation and laboratory period each week.

## E393 The Soviet Economy: Organization and Growth (3 cr.)

Pre-Revolutionary economic growth, the changing Soviet economy, workers' control, war communism, N.E.P., the over-all planning era, post-Stalin planning and reorganization, and achievements and prospects.

## E493 (G493) Developmental Problems of Non-Industrialized Countries (3 cr.)

Prerequisite, senior standing. Discussion of factors related to economic, political and social change in the less-developed countries. Problems involved in measurement, control, and explanation of economic development and interrelated political and administrative changes. Consideration of internal and external pressures designed to influence patterns of development.

## EDUCATION

## E326-E327 Social Studies and Science for the Elementary Teacher I-II (2-2 cr.)

A professional course which explores the sociological backgrounds of education and surveys subject matter, materials, and methods in the content areas of the elementary school. Social studies is emphasized in Education E326, and science, in E327. Offered only in University regional campuses.

## E335 Language Arts in the Elementary Schools (4 cr.)

Provides intensive study of the development of language in the young child, the development of oral and written language in the elementary school, creative language, dramatics, handwriting, and spelling.

## E336-E337 Language Arts for the Elementary Teacher I-II (2-2 cr.)

Provides intensive study of the development of language in the young child, the development of oral and written language in the elementary school, creative language, dramatics, handwriting, and spelling. The second semester is concerned with the teaching of reading in the elementary school. Offered only in University regional campuses.

## E343 Arithmetic for the Elementary Schools (3 cr.)

A professional course which emphasizes the developmental nature of the arithmetic process and its place as an effective tool in the experiences of the elementary school child.

## F100 Introduction to Teaching (2 cr.)

A combined lecture-laboratory course giving a brief introduction to the function of public education in society and of teaching as a profession. Major emphasis is placed upon assisting each student in studying the desired competencies in teaching, evaluating his own capacities, interests, and abilities, and planning his professional career.

## M323 The Teaching of Music in the Elementary Schools (2 cr.)

For elementary school teachers; not open to music majors. Fundamental procedures of teaching music in the elementary schools, with much consideration given to music material suitable for the first six grades.

## M333 Art Experiences for the Elementary Teacher (2 cr.)

Fundamental problems in the selection, organization, guidance, and evaluation of art activities, individual as well as group. Actual laboratory experiences with materials and methods of presenting projects are included.

## P100 Introduction to Educational Psychology (3 cr.)

An introduction to general psychology, designed to give the student an understanding of himself and other people through the study of sensation, emotion, intelligence, personality, motivation, learning, thinking, and the nervous system. Lectures and class discussion will be supplemented by group and individual experiments and demonstrations.

## P200 Child Development (3 cr.)

Prerequisite, P100 or the equivalent. Considers children's mental, physical, emotional, and social development in relation to their adjustment to school, with emphasis on the kinds of attitudes, knowledge, and habits that are characteristic of teachers who understand children.

## P240 Educational Psychology for Secondary Teachers (3 cr.)

Prerequisites, Psychology P101 or Education P100 or the equivalent of either of them, and sophomore standing. Emphasizes the development of the adolescent learner; factors, conditions, and principles of learning; individual differences affecting learning and behavior. Includes observation of children and adults and the performance of certain experimental exercises.

## X100 Practice in Reading and Study for Self-Improvement (2 cr.)

This course attempts: (1) to discover weaknesses in the student's methods of reading and study, and (2) to provide remedial exercises to correct these weaknesses. Although general problems concerning diagnosis and methods of study are discussed in regular classes, much of the work is done on an individual basis.

## ENGINEERING (Purdue Courses)

## CE118 Engineering Graphics (Class 1, Lab. 6, cr. 3.)

Prerequisite or concurrent, Mathematics M215. Graphical methods used in engineering design, layout, and calculation. Multiview and pictorial drawing and sketching of technical objects; basic dimensioning practice; conventional representation.

## CES110 Drafting Fundamentals (Class 1, Lab. 6, cr. 3)

A basic course in drawing; orthographic projection, pictorial drawing, print reading, and reproduction of drawings. Problems designed to require practical reasoning and develop good techniques.

## CE113 Slide Rules and Graphs (Lab. 2, cr. 1.)

Prerequisite or concurrent, Mathematics M113. Principles and use of the slide rule for division, multiplication, trigonometry, powers, and roots. Properties and types of coordinate graphs for scientific and engineering purposes; calculating and plotting graphs; uniform, log, semi-log, and others.



**DM156 Graphical Computations (Class 1, Lab. 6, cr. 3)**

Prerequisite or concurrent, Mathematics M113. Descriptive and analytic geometry principles applied to the solution of engineering problems; intersections and development of planes and solids; layout of objects in space; and determination of clearances between objects in space.

**DM180 Materials and Processes (Class 3, cr. 3)**

Application and characteristics, both physical and chemical, of the materials most commonly used in industry; the mechanical processes by which materials may be shaped or formed.

**DM204 Production Drawing (Class 1, Lab. 6, cr. 3.)**

Prerequisite, CES110; prerequisite or concurrent, DM180. Preparation of working drawings from layouts, drafting simplification, functional dimensioning, assembly drawings, detailing of machine elements, working with manufacturers' catalogs, applying fits, limits and tolerances to dimensions for interchangeable manufacture; information as to material, physical treatment, and manufacturing processes. The student works from layouts with a minimum of information so that self reliance in detailing may be developed.

**DM212 Mechanics of Materials (Class 4, cr. 4.)**

Prerequisite, Physics P201; prerequisite or concurrent, Mathematics M113. Forces acting on rigid bodies at rest and in motion-embracing vectors, force and moment laws of equilibrium for various force systems, centroids, center of gravity and moments of inertia, stress and strain, riveted and welded joints, torsion, shear, bending and deflection of beams, combined stresses and columns.

**ENGLISH****W131-W132 Elementary Composition I-II (2-2 cr.)**

No prerequisite. A course in written English beginning with the acquisition of skills in simple description, narration, and exposition and progressing to the practice of persuasion and documentation in support of a thesis.

**W140 Elementary Composition, Special Program (2 cr.)**

To be taken by specially qualified students in place of W131-W132.

**W203-W204 Writing I-II (2-2 cr.)**

An exploratory course in writing in which students may attempt effective expression in any form of composition. Features informal class meetings stressing mutual reading and criticism of class manuscripts.

**\*L101-L102 Freshman Literature I-II (3-3 cr.)**

A study of literary masterpieces from Homer's time to the present. The aims are to teach thoughtful, intensive reading; to introduce the student to some of the aesthetic values inherent in literature; and to make the student aware of the enjoyment that may be derived from reading. L101 is prerequisite to L102.

**L203 Introduction to Drama (3 cr.)**

A course designed to develop: ability to understand and appreciate drama; acquaintance with a representative group of significant plays; knowledge of characteristics of drama as a type of literature and of special problems involved in understanding it; critical ability to discriminate between plays and to evaluate them.

**L204 Introduction to the Novel and Short Story (3 cr.)**

A course designed to increase the student's ability to understand and enjoy good fiction through the reading and discussion of short stories and novels which illustrate the ingredients of fiction, structural technique in the novel, various philosophies of fiction, and the thematic scope of the novel.

**L205 Introduction to Poetry (3 cr.)**

Designed to teach students how to read and enjoy poetry. The objectives are to acquaint students with a selection of great poetry, to afford a knowledge of the characteristics of poetry as a type of literature, and to develop the critical ability to judge poetry intelligently.

**L206 Introduction to Biography (3 cr.)**

Significant biographies and autobiographies read to acquaint the student with aims, techniques, and development of biographical writing and with outstanding personalities in relation to their times. Consideration of the familiar essay as a form of self-revelation, and of diaries and letters both as forms and as materials of biography.

\* Recommended as background to students planning to major in English but may not be counted as part of the concentration group.

**\*†L214 Major American Writers: Whitman to Faulkner (2 cr.)**

Consideration of nine major writers: Whitman, Melville, Dickinson, Twain, Howells, Henry James, Robinson, Eliot, and Faulkner. Stress will be placed on literary aspects of writers and writing.

**L219 Introduction to Chaucer (3 cr.)**

An introduction to Chaucer's poetry, including selected short poems and the best of the *Canterbury Tales*.

**L220 Introduction to Shakespeare (3 cr.)**

An introduction to Shakespeare, with rapid reading of the greatest of his works.

**L330 Major Romantic Writers II (3 cr.)**

Major Romantic writers of the second generation are studied against the social and philosophical background of their time. The emphasis is on the poetry, letters, and criticism of Byron, Shelley, Keats, and their associates. (L329 is not a prerequisite.)

**L333 Major Victorian Writers I (3 cr.)**

Major Victorian authors are studied against the social and philosophical background of their time. Emphasis is given to the writings of Tennyson and Arnold, and to the impact of science and higher criticism upon Victorian literature.

**L345 Twentieth-Century British Literature I (3 cr.)**

A study of social criticism and philosophical and religious thought in Butler, Hardy, Bennett, Huxley, Orwell, Greene, and Hopkins.

**L346 Twentieth-Century British Literature II (3 cr.)**

A study of technical experiment and the search for values in Conrad, Lawrence, Joyce, Woolf, Mansfield, and Yeats.

**L347 The English Novel to 1800 (3 cr.)**

The development of the novel in England is studied by reading approximately twelve novels by representative writers, including Defoe, Richardson, Fielding, Smollett, Sterne, and Austen.

**L348 The English Novel, 1800-1900 (3 cr.)**

A continuation of the development of the novel in England, although L347 is not a prerequisite. Approximately twelve novels by Scott, Dickens, Thackeray, Trollope, Hardy, Meredith, Conrad, and others are read.

**\*L351 Critical and Historical Study of American Literature I (3 cr.)**

Critical and historical study of American writers to 1865: the work of Emerson, Hawthorne, Melville, Whitman. Two or three additional major writers will be included.

**\*L352 Critical and Historical Study of American Literature II (3 cr.)**

Critical and historical study of American writers since 1865: the work of Mark Twain, Dickinson, James, Faulkner. Two or three additional major writers will be included.

**L357 Twentieth-Century American Poetry (3 cr.)**

A study of the principal American poets since 1900, including such figures as Robinson, Frost, Pound, Sandburg, Eliot, and MacLeish; and of the more important developments in verse form, technique, imagery, metaphor, diction, and theme.

**L358 Twentieth-Century American Fiction (3 cr.)**

A study of the principal American writers of fiction since 1900, including such figures as Dreiser, Cather, Lewis, Fitzgerald, Dos Passos, Hemingway, and Faulkner, and considering the use of realism, the 1920's and the Lost Generation, the era of social consciousness and nostalgia, and the postwar novel.

**L359 The American Novel: Cooper to Dreiser (3 cr.)**

A detailed study of representative nineteenth-century American novels.

**L371 History of Criticism (3 cr.)**

A survey of literary criticism from ancient to modern times, with a close study of the principal critical works.

**L390 Children's Literature (3 cr.)**

A study of historical and modern children's books and selections from books, designed particularly to assist future teachers, parents, librarians, or others to be able to select the best in children's literature for each period of the child's life.

\* No student may receive credit for both L213 and L351 or for both L214 and L352.

† May not be counted by English majors as part of the concentration group.



**G203 English Grammar for Teachers (3 cr.)**

The study of words and their function in accepted American usage. Description and analysis of the basic facts of speech with emphasis on the logical interpretation of the laws governing the behavior of our language. Intended especially for students preparing to teach English in elementary or secondary schools.

**G301 History of the English Language (3 cr.)**

A historical and structural analysis of the English language in each of the various stages of its development. Emphasis is placed upon the political and social events affecting the development of language, the interrelationship of language and literature, and the evolution of modern phonology and syntax.

**FINE ARTS****H100 Art Appreciation (2 cr.)**

The objectives are to acquaint students with outstanding works of art and to provide an approach to appreciation through a knowledge of purposes, techniques, form, and content. Valuable for persons who intend to travel. Required for elementary teachers' certificates.

**H223-H224 Introduction to History of Art I-II (3-3 cr.)**

This course is a prerequisite for all art majors to the "300" and "400" history of art courses. A survey of the history of art in relation to general historical and social developments from prehistoric to recent times. Emphasis is placed upon the great periods and styles. Required of all art majors before the end of their sophomore year.

**H353 Nineteenth-Century Painting (3 cr.)**

The main movements in modern painting and sculpture from the classic revival of David at the end of the eighteenth century through romanticism, realism, and impressionism, to Cezanne.

**S101 Introduction to Design (2 cr.)**

An experimental, exploratory course in both two and three dimensional design. A course to broaden the student's visual vocabulary and give him new insights into the structure of nature, its organization and visual effects. Development and coordination of perceptual and manual skills.

**S135 Introduction to Drawing (3 cr.)**

Introduction to the various techniques of drawing. Free expressive handling of materials, emphasizing individual expression in problems of representation. Development of visual awareness and selectivity.

**S235-S335 Freehand Drawing I-II (3-3 cr.)**

Prerequisite, S135. Study of composition; exploration of techniques; problems of representation; emphasis on individual expressiveness and experimentation with advanced problems in subject matter. S235 is prerequisite to S335.

**S255-S256 Crafts and Design I-II (2-2 cr.)**

Emphasis is on creative designs developed through drawing, collage, and color problems. Objects such as fabrics, masks, puppets, and sculpture are executed. S255 is designed for elementary education majors. S256 covers a wider range of common materials which can be used creatively and is designed for art education majors.

**S333-S334 Oil Painting I-II (3-3 cr.)**

Prerequisite or concurrent, S135. Painting from still life and other subjects. An introduction to the technique of oil painting and to representation in color. S333 is prerequisite to S334.

**S345-S346 Life Drawing I-II (2-2 cr.)**

Prerequisite S135. Introduction to drawing from the model. A study of the human figure with emphasis on structure, volume, and projection in space.

**S433 Oil Painting III (3 cr.)****FOLKLORE****F384 American Folklore (3 cr.)****FRENCH****F101-F102 Elementary French I-II (5-5 cr.)****F201-F202 Second-Year Composition and Oral Practice I-II (2-2 cr.)**

Prerequisite, F101-F102 or equivalent.

**F211-F212 Modern French Prose I-II (3-3 cr.)**

Prerequisite, F101-F102 or equivalent.

**F491 Elementary French for Graduate Students (4 cr.)**

No prerequisite. An introduction to the structure of the language necessary for reading, followed by readings in graded texts of a general nature. The class will meet four hours a week for one semester.

**F492 Readings in French for Graduate Students (4 cr.)**

Prerequisite, successful completion of F491 or permission of Department. For graduate students who have had basic work in French and who desire training and practice in reading material of some difficulty in their specific fields. The class will meet four hours a week for one semester.

**GEOGRAPHY****G105 Introduction to Physical Geography (3 cr.)**

The broad physical characteristics of the earth's surface, and its differentiation by climate, vegetation, soil, landforms, etc. Physical relationships and regions.

**G210 Introduction to Cultural Geography (3 cr.)**

Prerequisite, G105. A general study of the relationships between man and the earth. Major types of human economy and their world distribution. Man as an organizer of terrestrial space and resources.

**G314 Urban Geography (3 cr.)**

Prerequisite, three hours of geography or special permission. Principles of location and distribution of urban centers; urban land use; the geographical aspects of city planning.

**G315 Conservation of Natural Resources (3 cr.)**

Prerequisite, three hours of geography or junior standing. Current problems in the wise utilization of soils, waters, mineral resources, and especially forests, fish, and game. Includes an introduction to land use planning.

**G326 Geography of North America (3 cr.)**

Prerequisite, G105, G106, and G210. Analysis of continental and regional variations in terrain and climate, and the economic and social life of the United States and Canada, with emphasis on geographical principles, sources of geographical data, and techniques of geographical investigation.

**GEOLOGY****‡G100 Geology and Man (5 cr.)**

A cultural course dealing with minerals and rocks; origins of rivers, lakes, oceans, earthquakes, volcanoes, glaciers, and other features; evolution of life culminating in man; and relative distribution and abundance of minerals essential to modern nations. Three lectures, two laboratories, and field trips.

**G305 Geologic Principles and Processes (5 cr.)**

No prerequisite. Introductory course for advanced students. Broad coverage of earth materials, earth processes, and geologic principles; emphasis is placed on relationships between geology and other physical science through geochemical and geophysical approach to subject matter. Credit will not be given for this course and either G100 or G105.

**GERMAN****G101-G102 Elementary German I-II (5-5 cr.)****G201-G202 Second-Year Composition and Conversation I-II (2-2 cr.)**

Prerequisite, G101-G102 or equivalent.

**G211-G212 Second-Year Reading I-II (3-3 cr.)**

Prerequisite, G101-G102 or equivalent.

**G491 Elementary German for Graduate Students (4 cr.)**

No prerequisite. An introduction to the structure of the language necessary for reading, followed by readings in graded texts of a general nature. The class will meet four hours a week for one semester.

**G492 Readings in German for Graduate Students (4 cr.)**

Prerequisite, successful completion of G491 or permission of the Department. For graduate students who have had basic work in German and who desire training and practice in reading professional material of some difficulty in their specific fields. The class will meet four hours a week for one semester.

‡Credit for this course cannot be used to satisfy the minimum requirements for the A.B. and B.S. degrees in geology. Credit will not be given for both G100 and G105.



## GOVERNMENT

## G103 Introduction to American Government I (3 cr.)

A brief general introduction to the nature of government and its various forms and to modern theories of its function, followed by a specific treatment of the origin and nature of the American federal system and its political party base.

## G104 Introduction to American Government II (3 cr.)

Prerequisite, G103. The study of the structure and function of the American national, state, and local government.

## G211 Introduction to Political Philosophy (3 cr.)

Prerequisites, G103-G104 or three hours of philosophy, or junior standing. An introduction to some of the perennial problems of political philosophy, including the relationships between rulers and ruled, the nature of authority, the problems posed by social conflict, the character of political knowledge, and the status of goals or purposes as objectives of political action.

## G213 Introduction to World Politics I (3 cr.)

A study of causes of war, nature and attributes of the state, imperialism, nature and development of international law, national sovereignty, arbitration, adjudication, international organization, and major international issues.

## G321 The Government and Administration of Urban Communities (3 cr.)

Prerequisites, G103-G104 or consent of instructor. Growth, development and problems of urbanism, particularly in the political area. Major emphasis on municipal administration and policy making and the effects of municipal organization, legal status, political parties, invisible government and other factors upon urban policy. Formal classwork is supplemented by field projects.

## G364 Totalitarian Political Patterns (3 cr.)

Evaluation of the main totalitarian systems, both European and non-European, of modern political thinking, and the Western concepts of government. Emphasis will be laid on the role of the party, instruments of rule, and on the socioeconomic background of totalitarianism.

## G385 Government and Politics of Latin America (3 cr.)

Analysis of the evolution of governmental and political processes in Latin America, with emphasis on contemporary trends and the social, economic and ideological background by the transition from traditional to modern political patterns.

## HEALTH, PHYSICAL EDUCATION, AND RECREATION

## R180 Recreation Leadership (2 cr.)

For men and women. Required for the four-year teacher-training course, and of students taking a major or desiring a certificate in physical education. Games, theories of play and recreation, methods of organization, technique of game conduct, proper placement of games as to age, equipment, variations of games, and incentives.

## HISTORY

## H103-H104 History of Western European Civilization I-II (3-3 cr.)

Rise and fall of ancient civilizations; barbarian invasions; rise, flowering, and disruption of the medieval Church; rise and decline of feudalism; growth of national monarchies; rise of middle class; development of parliamentary institutions, liberalism, and political democracy; industrial revolution; growth of capitalism, and socialist movements; modern nationalism, imperialism, international rivalries, and wars.

## H105-H106 American History: General Course I-II (3-3 cr.)

I. A survey of the Colonial period, the Revolution, the Confederation and the Constitution, and the National period to 1865. II. Begins with 1865 and continues to the present. Political history forms the framework, but economic, social, cultural, and intellectual history are interwoven. An introduction to historical literature, source material, and criticism is included.

## H333-H334 American Colonial History I-II (3-3 cr.)

The European background of American history; discovery and exploration of the New World by Spain, France, and England. Colonization: motives, causes, and types. Social and intellectual developments in the English colonies in the seventeenth and eighteenth centuries. Birth of the Republic, 1763-1789.

## H337-H338 Recent United States History, 1865 to Present I-II (2-2 cr.)

Prerequisite, H105 is recommended. A course of junior-senior level. Emphasis is evenly distributed between political, economic, and social history. Each student is required to do some study in the scholarly special works and in the source material.

## H345-H346 Europe from Napoleon to the First World War I-II (3-3 cr.)

The Vienna settlement and the period of reaction in Europe; spread of liberalism and nationalism; revolutions; industrial revolution, growth of capitalism; origins and spread of socialist movements; unification of Italy and Germany; clericalism and anticlericalism; struggles for political democracy; social legislation; imperialism, nationalist rivalries, and background of World War I.

## H347-H348 Europe in the Twentieth Century I-II (3-3 cr.)

An analysis of diplomatic, economic, intellectual, military, political, and social developments within Europe from World War I to the present time, against the background of changing relationships between Europe and other parts of the world.

## H363-H364 History of Indiana I-II (2-2 cr.)

I. The French and English periods, the Revolution in the West, the territorial period, and statehood to 1850. II. The second constitution, the Civil War, and the development of the modern commonwealth—industry, agriculture, education, and culture.

## H373-H374 The American Middle West I-II (3-3 cr.)

The French and British periods, American Revolution, settlement of the Ohio Valley, and national, land, governmental, and Indian politics. Formation of Ohio, Indiana Territory, statehood in Indiana, territorial Illinois, population movements; antislavery, land, currency, and internal improvement policies; Jacksonian constitutions; and minority movements during and after the Civil War.

## H375-H376 American Far West I-II (3-3 cr.)

I. An analysis of the Spanish penetration into the Greater Southwest and the early developments in Louisiana Territory and the Oregon Country prior to 1850. II. A topical analysis of economic, political, and social developments in the trans-Mississippi West, 1850 to present.

## H377-H378 History of the South I-II (3-3 cr.)

Prerequisites, H105-H106 or consent of instructor. Treats political, social, economic, and cultural aspects of southern colonies and states. Sectionalism, Civil War and Reconstruction, racial readjustment, agrarianism, industrial development, demagogues, and the role of the South in the nation are among the topics considered.

## HOME ECONOMICS

## H206 Nutrition (2 cr.)

The food needs of normal individuals of different ages; the selection of food for health; a study of the nutritional status of the people in the United States. Required for elementary teachers' certificates.

## JOURNALISM

## J204 Reporting (3 cr.)

Basic instruction in newswriting and reporting supplemented by experience on the news staff of a paper. Relationship of the newsroom to other phases of newspaper operation.

## J327 Writing for Publication (3 cr.)

Not open to students who have had C200. A course for students not interested in writing as a career but desiring instruction and practice in preparation of newspaper, magazine, and radio copy that may be required in connection with their chosen employment.

## LIBRARY SCIENCE

## L220 Introduction to Reference Materials (2 cr.)

The content and use of basic reference tools, such as atlases, directories, statistical publications, encyclopedias, dictionaries, and the library card catalog. Also includes the use, for reference purposes, of the University Library.

## L423 Selection and Use of Library Materials (3 cr.)

The study and evaluation of broad subject fields of printed, filmed, and recorded materials suitable for library collections. Emphasizes principles of selection and available aids to selection in the several communication media, with practice provided in the use of materials in modern library programs.

## L483 Library Cataloging and Classification (3 cr.)

Classification, by the Dewey Decimal System, and the principles of cataloging books, films, filmstrips, slides, phonorecords, and maps. Procedure for ordering and using Library of Congress and Wilson cards.



## MATHEMATICS

## M104 General Mathematics for Elementary Teachers (5 cr.)

A course in basic ideas of mathematics and fundamentals of arithmetic for prospective elementary teachers. Sets, logic, the rational number system, the real number system, greatest common divisor, least common multiple, prime factorization, divisibility, and numbers to bases other than ten.

## M105 Intermediate and College Algebra (5 cr.)

Prerequisite, one year of high school algebra. Students with three semesters of high school algebra receive only three hours of credit; students with four semesters receive none. The number system, fundamental operations, quadratic equations, graphical representation, systems of equations, progressions, permutations and combinations, the binomial theorem, determinants, and elements of theory of equations.

## M107 College Algebra (3 cr.)

Prerequisite, one and one-half years of high school algebra. In special cases, students with one year of such preparation will be accepted. Students with four semesters of high school algebra receive no credit for this course. Same as M105, but less time is devoted to a review of elementary topics. With M113, it is required of premedical students and students intending to transfer to Purdue.

## M113 Trigonometry (2 cr.)

Prerequisite or concurrent, two years of high school algebra or M105 or M107. Not open to students who have had high school trigonometry or M115 or M117. Definition and fundamental properties of the trigonometric functions, identities, inverse functions, graphs, radian measure, addition formulas, logarithms, solution of triangles with applications, and trigonometric equations. With M107, required of premedical students and students intending to transfer to Purdue. Students who have had high school trigonometry will not receive credit for this course.

## M115 Elementary College Mathematics (5 cr.)

Prerequisite, one year of high school algebra. Introduction to mathematical reasoning, algebra, and trigonometry. Primarily for students who expect to major in the social sciences.

## M117 Introduction to College Mathematics (3 cr.)

Prerequisite, one and one-half years of high school algebra. Introduction to mathematical reasoning, algebra, and trigonometry. Primarily for students who expect to major in the social sciences.

## M131-M132 Plane Analytic Geometry I-II (2-2 cr.)

Prerequisites, two years of high school algebra and trigonometry, or M105 and M113, or M107 and M113, or M115, or M117. M131 not open to students who have had M118. Coordinate systems, loci, equations of curves, and a systematic study of the straight line, the circle, the conic sections, and the general equation of the second degree.

## M211-M212 Calculus I-II (3-3 cr.)

Prerequisite or concurrent, M118 or M131. Differentiation and integration of functions of one variable and applications.

## M215-M216 Analytic Geometry and Calculus I-II (5-5 cr.)

Prerequisites, the same as for M131. This course covers exactly the same material as courses M131-M132 and M211-M212. M215 and M216, respectively, are acceptable in place of M211 and M212 as prerequisites for other courses. This course is to be taught at the Southeastern Campus only.

## M217-M218 Elementary Calculus I-II (4-4 cr.)

This course is given only at the Indiana University regional campuses. It includes essentially the material covered in M211-M212, and M311.

## M261-M262 Elementary Statistics I-II (3-3 cr.)

Prerequisites, two years of high school algebra or M105 or M107 or M115 or M117, and M211. Two lectures and one two-hour laboratory each week. Descriptive statistics, testing hypotheses, estimation, regression, analysis of variance, design of experiments, etc.

## M311-M312 Calculus III-IV (3-3 cr.)

Prerequisite, M212. Partial differentiation, multiple integrals, infinite series, vector analysis, and Fourier series and applications.

## M313 Elementary Differential Equations (3 cr.)

Prerequisite, M212. Equations of first order with applications, linear equations, second order equations, solution by series, and approximate methods.

## MUSIC

## E241 Introduction to Music Fundamentals (2 cr.)

Designed to aid elementary teachers in the School of Education in learning to sing and to read music.

## M174 Appreciation of Music I (2 cr.)

How to listen to music; art of music and its materials; creator and creation of music; instruments and the musical forms. Examples by use of records, films, and live music. Required for elementary teachers' certificates.

## M175 Appreciation of Music II (2 cr.)

Music of the nineteenth and twentieth centuries; music of Beethoven; Romanticists; the National schools; Wagner; Brahms; music in America; and the "moderns."

## T111-T112 Theory I-II (4-4 cr.)

I. Fundamentals of musicianship approached through aural and visual analysis and performance media, leading to a study of elementary harmony. II. Continuation of the aural and visual analysis approach; diatonic triads and inversions; simple modulation; creative writing for piano, voices, and instrumental combinations; sight reading and keyboard techniques.

## PHILOSOPHY

## P100 Introduction to Philosophy (3 cr.)

Open only to students without previous credit in philosophy. An introduction to philosophical problems through a study of the following philosophical classics: Plato, *Meno*; St. Augustine, *Confessions* (selections); Descartes, *Discourse on Method*; Hume, *Abstract* and *Dialogues on Natural Religion* (selections).

## P240 Ethics (3 cr.)

Prerequisite, three hours of philosophy or sophomore standing. A study of the conceptions of good and evil in four philosophical systems which are at present influential: Thomistic Christianity (Aquinas); Christian existentialism (Kierkegaard); atheist existentialism (Sartre); and logical positivism (Ayer).

## P250 Logic (3 cr.)

Prerequisite, three hours of philosophy or sophomore standing. Study of the basic intellectual tools employed in processes of human knowing. The point of departure is traditional Aristotelian logic. The objective is to exhibit the relevance of elementary logical forms of thought to scientific and philosophical knowledge in general.

## P301 History of Western Philosophy I (3 cr.)

Prerequisite, six hours of philosophy (including P250) or junior standing. A survey of Western philosophy from Thales to Aquinas. The work of Plato and Aristotle is emphasized.

## P302 History of Western Philosophy II (3 cr.)

Prerequisite, six hours of philosophy (including P250) or junior standing. A survey of Western philosophy from Duns Scotus to Hegel. The period from 1600 to 1800 is emphasized.

## PHYSICS

## P100 Physics in the Modern World (5 cr.)

A study of the ideas, language, methods, impact, and cultural aspects of physics today. Four lectures and one two-hour laboratory period each week. Includes classical physics, up to the physical bases of radar, atomic-energy applications, etc. Beginning high school algebra is used. Cannot be substituted for physics courses explicitly designated in specified curricula.

## P201 General Physics: Mechanics, Heat, and Sound (5 cr.)

Prerequisites, Mathematics M107 and M113 or high school equivalent. Two lectures, two recitations, and one double laboratory period each week.

## P202 General Physics: Light, Electricity, and Magnetism (5 cr.)

Prerequisite, P201. Two lectures, two recitations, and one double laboratory period each week.

## Physics 152 (Purdue Course) Mechanics and Sound (Class 4, Lab. 2, cr. 4)

Prerequisite or concurrent, Mathematics M216. Statics; uniform and accelerated motion; Newton's laws; circular motion; energy, momentum, and conservation principles; dynamics of rotation; gravitation and planetary motion; properties of matter; simple harmonic and wave motion; sound. Required for Purdue Pre-Engineering Program.



## POLICE ADMINISTRATION

## P211-P212 Police Management I-II (3-3 cr.)

Prerequisites, Government G103-G104. A basic course covering the development of police service, including organization and administration and their attendant problems, together with the role of the police in the administration of criminal justice and crime control.

## P321-P322 Criminal Investigation I-II (3-3 cr.)

Prerequisites, P211-P212. Historical development of criminal investigation; tactics of investigation; laboratory methods of examination and evaluation of physical evidence, including studies of actual and hypothetical criminal cases.

## PSYCHOLOGY

## P101 Introductory Psychology I (3 cr.)

A systematic introduction to psychology as a behavioral science; its methods, data, and theoretical interpretations, with applications to the understanding and control of individual and social behavior.

## P102 Introductory Psychology II (3 cr.)

Prerequisite, P101. The field of experimental psychology with special emphasis on empirical research and theory in the areas of learning, psychophysiology, and sensory psychology.

## P111 Introductory Laboratory Psychology I (2 cr.)

Prerequisite, P101. An experimental laboratory course supplementary to P101 to satisfy the five-hour science requirement. Required of all major students in psychology. Experimental method and the statistical treatment of data; laboratory investigation of selected topics in general psychology.

## P233 Industrial Psychology (3 cr.)

Prerequisites, three hours of psychology and one course in statistics or permission of instructor. The application of psychological principles and research techniques to industrial and personnel problems, including selection, training efficiency, safety, and the design of equipment.

## P316 The Psychology of Childhood and Adolescence (3 cr.)

Prerequisite, five hours of psychology. A study of the development of behavior in infancy, childhood, and youth, including a survey of the factors which influence various kinds of behavior. Examination of the literature on adolescence and training to interpret adolescent behavior problems.

## P319 The Psychology of Personality (3 cr.)

Prerequisite, five hours of psychology. Methods and results of the scientific study of personality. Attention is given to the basic concepts of personality traits and their measurement, the developmental influences, and the problems of integration. Theories of organization, types, and methods of analysis are critically evaluated.

## P324 Abnormal Psychology (3 cr.)

Prerequisite, five hours of psychology. A first course in the field of abnormal psychology with emphasis upon forms of abnormal behavior, etiology, developmental course, interpretations, and final manifestations. Credit will not be granted for both P234 and P324.

## P327 The Psychology of Motivation (3 cr.)

Prerequisite, five hours of psychology. A study of the ways in which needs, desires, and incentives influence behavior. Discussion of research on motivational processes in human and animal behavior, including the ways in which motives change and develop.

## P336 Psychological Tests and Individual Differences (3 cr.)

Prerequisite, P354. An introduction to the principles of psychological testing, together with a survey of representative tests and their uses for evaluation and prediction. Emphasis upon the basic concepts of reliability, validity, standardization, norms, and item analysis. Prepares the student to evaluate tests and interpret their results.

## P354 Statistical Analysis in Psychology (3 cr.)

Prerequisite, five hours of psychology and Mathematics M107 or equivalent. Required of all majors in psychology. An introduction to the use of statistics in psychological work, including the ordering and manipulation of data, problems of statistical significance, and elementary correlational methods.

## P425 Laboratory in Learning and Motivation (4 cr.)

Prerequisites, P101, P102 and P111, or P105. Introduction to the experimental methods used to study fundamental learning processes. Emphasis upon principles of reinforcement, conflict, drive, and discrimination.

## P495 Readings and Research in Psychology (cr. arr.)

## RADIO AND TELEVISION

## R204 Introduction to Radio and Television (3 cr.)

The functioning of radio and television in the studio from the standpoints of program planning, writing, production, performing, and evaluating. Students will be assigned limited participation in each of these activities. Field trip. One hour of lecture and two hours of discussion and laboratory.

## SLAVIC LANGUAGES AND LITERATURES

## R101-R102 Elementary Russian I-II (5-5 cr.)

Concentrated course for beginners, consisting of fundamentals, drill in pronunciation, grammatical construction, and reading of easy fiction. Extensive practice in spoken Russian.

## R211-R212 Russian: Second-Year Reading I-II (3-3 cr.)

Prerequisite, R101-R102 or equivalent. Readings in standard Russian literature and modern prose.

## SOCIAL SERVICE

## S415 Social Services to Individuals (2 or 4 cr.)

Prerequisites, the four-hour section is limited to seniors who are social service majors; the two-hour section is open to juniors and seniors. Methods of giving services to individuals, with special emphasis on the common aspects of all service professions.

## SOCIOLOGY

## S161 Principles of Sociology (3 cr.)

This course describes and interprets the nature of interpersonal relationships, societies, groups, and communities, and such institutional areas as the family, industry, and religion; the social process operating within these areas; their significance for problems of personality; human nature, social disorganization, and social change. Required for elementary teachers' certificates.

## S162 Society and the Individual (3 cr.)

Prerequisite, S161. A study of personality and its development; its relationship to culture and communication, and to the social settings within which human beings live; deviant types.

## S163 Social Problems (3 cr.)

Prerequisite, S161. The study of selected areas that involve major social problems, such as the family, religion, the economic order, crime, mental disorders, civil rights, and racial, ethnic, and international tensions. The areas are considered in terms of the nature of the problem and its relation to the structure and values of the larger society.

## S309 The Community (3 cr.)

Prerequisite, six hours of sociology or S161 and junior standing. Characteristics of urban, suburban, and rural communities, especially in America; ecological analysis of community and neighborhood structure and organization; sociological aspects of housing and land utilization; human behavior in the community; patterns of community growth; and community planning.

## S325 Criminology (3 cr.)

Prerequisite, six hours of sociology, or S161 and junior standing. Factors in genesis of crime, and organization of criminal behavior from the points of view of the person and of the group.

## S326 Control of Crime (3 cr.)

Prerequisite, six hours of sociology, or S161 and junior standing. An analysis of policies for the prevention of crime and the treatment of criminals on the basis of knowledge regarding the causation of criminal behavior.

## S328 Juvenile Delinquency (3 cr.)

Prerequisite, six hours of sociology, or S161 and junior standing. The nature and extent of juvenile delinquency; juvenile delinquency and the law; methods of research in juvenile delinquency; delinquency causation; and theories and practices of delinquency control.

## S335 Race and Ethnic Relations (3 cr.)

Prerequisite, six hours of sociology, or S161 and junior standing. Racial and cultural contacts, especially in America; factors which determine the rate and manner of assimilation; cultural pluralism; theories and conceptual analysis of prejudice; comparative examination of systems of diverse race relations in different parts of the world.

## S416 The Family (3 cr.)

Prerequisite, six hours of sociology, or S161 and senior standing. The family as a social institution, changing family folkways, the family in relation to development of personality of its members, disorganization of the family, and predicting success and failure in marriage.



## SPANISH

## S101-S102 Elementary Spanish I-II (5-5 cr.)

Exercises in pronunciation and intonation, elementary grammar, simple conversation, and reading. Use made of films, records, and other audio-visual devices. Not open to students who are beginning French except by special permission.

## S201-S202 Second-Year Spanish Composition and Conversation I-II (2-2 cr.)

Prerequisite, S102 or equivalent. Review of grammar, practice in composition and conversation, translation from English into Spanish, and drill on idiomatic expressions. Use made of audio-visual aids.

## S211-S212 Modern Spanish Prose I-II (3-3 cr.)

Prerequisite, S102 or equivalent. Readings of material relative to Spanish-speaking countries, modern novels, short stories, and plays. Exercises in translation.

## SPEECH AND THEATRE

## S121-S122 Public Speaking I-II (2-2 cr.)

A basic course in the theory and practice of public speaking, giving training in thought processes necessary to organized speech content, personality, components of effective delivery, and use of voice, body, and language. The second semester emphasizes critical evaluation of and practice in presenting various types of speeches.

## S123 Discussion and Debate (3 cr.)

Training in clear, logical, and persuasive communication; in analysis, exposition, reasoning, and use of evidence; practice in effective delivery. Participation in debate and discussion.

## S131-S132 Fundamentals of Theatre Practice (3-3 cr.)

Required for all majors concentrating in theatre and drama. Theories and techniques of stagecraft, stage lighting, stage costume, and make-up. Routine production procedures incorporate these basic techniques into a coherent whole. Practical experience is provided in the University Theatre.

## S144 Fundamentals of Acting (3 cr.)

Required as a basic course of all majors concentrating in theatre and drama. Fundamental theories, functions, and practice in the art of acting. Lecture and laboratory.

## S160 Speech Correction for Classroom Teaching (3 cr.)

An introductory course in classification and methods of therapy for speech and hearing disorders. Special emphasis is placed on rehabilitation which can be given by the teacher to children in a classroom situation.

## S223 Business and Professional Speaking (3 cr.)

Experience in the preparation and presentation of types of speeches frequently made in the business and professional occupations: oral report, argumentative followed by questions from audience, persuasive, and group discussion. A portion of the course is devoted to practice in parliamentary procedure.

## S240 Appreciation of the Theatre (2 cr.)

The purpose of this course is to enable students to become familiar with those aspects of theatre which significantly increase their appreciation of this art form.

## S247-S248 Introduction to History of the Theatre I-II (3-3 cr.)

No prerequisite. Significant factors in each of the primary periods in theatre history, and the effect of these factors on contemporary theatre. Representative plays of each period are reviewed to illustrate the theatrical use of dramatic literature of that time. Either semester may be elected independently.

## S251 Introduction to Dramatic Production (3 cr.)

Study of the complete process of play production adapted to the needs of students who may be required to plan and supervise dramatic programs in the public schools or in community recreation work. Practical experience is provided in the University Theatre. Not open to majors concentrating in theatre and drama.

## S339 Techniques and Styles of Make-up (1 cr.)

Prerequisites, S131-S132 on consent of instructor. Development of techniques and styles of make-up in theatre, opera, and dance. Practical experience is provided in the University Theatre.

## S425 Speech Training for Teachers (3 cr.)

A combination survey and practice course in speech for students preparing to teach any subject. Both the teacher's and the student's speech problems are considered. Practical application of public speaking, oral interpretation, discussion, theatre, radio, and speech correction.

## ZOOLOGY

## Z103 Animal Biology (5 cr.)

No prerequisites. This course is designed to emphasize the interdependence of all living things. Certain type forms, for example, frog, crayfish, earthworm, etc., are used to demonstrate general biological principles. Problems of body function, inheritance, development, and evolution are studied and their application to human biology is considered. Required of premedical and pre dental students, and applicable on elementary teachers' certificates. Includes laboratory.

## Z215 Developmental Anatomy (5 cr.)

Prerequisite, Z103. The structure of the human body is best understood in terms of the evolutionary and embryological history of its parts. That history is told in this course by a comparative study of the corresponding parts found in the lower vertebrates accompanied by a consideration of vertebrate and human embryology. Includes laboratory.



**AUDIO-VISUAL CENTER**  
Indiana University, Bloomington

LAWRENCE C. LARSON, A.M., Director.  
E. L. RICHARDSON, M.S. in Ed., Assistant Director.  
MENDEL SHERMAN, Ed.D., Assistant Director.  
KENNETH GENE FARIS, Ed.D., Assistant in Circulation.  
CLARENCE M. FLATEN, Ph.D., Supervisor of Photography.  
MALCOLM LEE FLEMING, Ed.D., Supervisor of Motion Pictures.  
CAROLYN GUSS, Ed.D., Associate in Selection.  
JOHN MOLDSTAD, Ed.D., Assistant in Utilization.  
GEORGE F. SIDONS, Supervisor of Audio Services.  
HENRY BERN, Ph.D., Associate in Research.  
WARREN D. STEVENS, Ed.D., Coordinator, AID Training.  
HARVEY R. FRYE, M.S. in Ed., Supervisor of Graphic Arts.

Professors GUSS, LARSON, SHERMAN; Associate Professors BERN, BLAIN, KNOWLTON, MOLDSTAD, STEVENS; Assistant Professors BLACK, BUCKLEY, FARIS, FLATEN, FLEMING, FRYE, HERRICK, HUGHES, VUKE; Instructors CARTER, NICHOLAS, RUDERMAN; Lecturers ARMSTRONG, BAEHREND, COLE, FRIEDBERG, HOFFMANN, LANDSAW, METCALF, PETT, REYNOLDS, RICHARDSON, ROWE, SATTERTHWAITTE, SIDONS, STRIMEL.

(See the *Bulletin of the School of Education, Graduate Division*, for administrative titles and degree information.)

The University's audio-visual service, begun prior to World War I with the circulation of a few glass slides, has expanded to include all types of audio-visual materials and many kinds of audio-visual services administered through the Audio-Visual Center.

It provides audio-visual communication services to elementary and secondary schools, universities and colleges, and other educational organizations off campus, and provides audio-visual services to instructors of campus classes and to educational organizations of or associated with the University, the latter on a minimal charge basis.

Many of the faculty of the Audio-Visual Center have joint appointments with the School of Education and through this affiliation teach and perform research in the practical and theoretical aspects of the production, selection, circulation, and utilization of the major types of audio-visual materials.

Public schools in practically all counties in Indiana and in many of the states make use of the film library, which contains over 8,000 titles of educational motion pictures and over 4,000 units of filmstrips, recordings, and other types of audio-visual materials. Over 200,000 reels of films are distributed annually to off-campus users; in addition, nearly 9,000 reels are run for campus users.

The photographic service produces each year approximately 27,000 prints, 1,600 slides, and as many as 2,500 portraits, exclusive of thousands of student and staff identification cards. The audio recording laboratory produces nearly 1,500 master tapes and disc recordings.

Each year approximately 25 reels of motion pictures are produced by the Audio-Visual Center for campus departments and state agencies. Most of these are marketed by them. Each year some are awarded special recognition by various evaluating organizations.

The Center is also the agent for the marketing and distribution of National Educational Television film releases and for the audio-visual film materials assembled by The Fund for Adult Education during its ten-year history.

Publications describing these several services and functions and listing available materials, both *in toto* and by subject-matter area, facilitate their utilization and greatly increase the effectiveness of education in the areas in which materials are available. These are distributed widely throughout the state and elsewhere on request.

**CONFERENCE BUREAU**

Ward G. Biddle Continuation Center, Indiana University, Bloomington

WILLIAM NORRIS WENTWORTH, B.S., Director.  
GEORGE KIRK, M.B.A., Assistant Director.  
KEITH STAPLEY, B.S., Administrative Assistant.  
THOMAS E. COSGROVE, B.S. in Bus., Administrative Assistant.

The Conference Bureau's function is to coordinate the use of the University's services and facilities appropriate for conferences and to administer the many physical details associated with educational conferences, institutes, and workshops. These details include arrangements for housing, meeting rooms, food services, audio-visual services, and many other incidental services of the University and the community.

The conferences and institutes are initiated by schools and departments of the University or co-sponsored by them with outside organizations; by professional, scientific, and learned organizations and by other organizations that have educational programs or use the academic resources of the University; by student groups; and by non-University groups whose programs are of public or social significance in the local community welfare.

Approximately 300 such meetings are held annually on the Bloomington Campus, with a total attendance of 45,000 to 50,000 people. The regional campuses each sponsor a few conferences and institutes annually for their constituents.

**BUREAU OF CORRESPONDENCE STUDY**  
Owen Hall, Indiana University, Bloomington

CLARENCE DAVIS, Ph.D., Director and Instructor in Philosophy.  
MAUDELINÉ FARIS, A.B., Assistant Director.

Correspondence study is a recognized and important part of educational activity in America. The correspondence method of study provides educational opportunities to those persons who cannot take courses in the classroom and reaches people of all ages and occupations, whether seeking university credit, high school credit, or vocational, professional, or cultural improvement. The instruction is highly personalized, and the student is given ample opportunity to develop his initiative, self-reliance, and independence of thought and expression. Since the student studies and reports on each assignment in full, he has every opportunity to achieve a thorough mastery of the course content.

The academic departments on the Bloomington Campus exercise academic control of the correspondence courses to assure that they are fully equivalent to the same courses taught on the university campuses. The Bureau urges prompt handling of written assignments and encourages instructors to make personalized, constructive, and stimulating comments to keep the students' interest and educational benefit at a high level. Supervised examinations are required in order to receive credit for a correspondence course.

Correspondence study courses have been offered by the university since 1912. Approximately 8,000 enrollments are in an active status now. Nearly 250 high school and college courses are available.

Indiana University subscribes to the *Criteria and Standards* of the Division of Correspondence Study, National University Extension Association. This document sets forth the basic educational philosophy of the Correspondence Study Program. Indiana University has a long-standing commitment to this philosophy which expresses "our society's basic belief in the worth and dignity of the individual"; emphasizes "the importance to our society of equal educational opportunities for all persons"; supports "the right and need of individuals in a free society to improve themselves and



their status"; makes "adequate provision for the individual differences that occur"; and is highly sensitive to "the need for professional competence, ethical practice, and responsible conduct."

### BUREAU OF INDUSTRIAL AND LABOR SERVICES

Owen Hall, Indiana University, Bloomington

D. W. MURPHY, Ph.D., Director, and Associate Professor of Economics.  
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As an important phase of general adult education, the activities of the Bureau of Industrial and Labor Services are directed toward equipping workers to function intelligently, creatively, and effectively as citizens and as union members. Advice on the over-all program is secured through regular joint meetings of the labor and faculty advisory committees. The labor committee is appointed by the President of the Indiana State AFL-CIO and the faculty committee by the President of Indiana University.

Each year approximately 2,000 individuals from thirty or forty international unions take part in this program through classes held in various cities over the state and through conferences and institutes in Indianapolis and on the Bloomington Campus. Teachers are drawn from the faculties of Indiana University and other colleges and universities, from professional groups, government agencies, and from union staffs, as well as from the staff of the Bureau.

In the fall of 1963 the Resident Labor Education Program was initiated with financial support from the Ford Foundation and United Steelworkers of America. The Program brought twenty Indiana and Kentucky steelworkers to the Bloomington campus for twelve weeks of study. The core of the curriculum was government, economics, labor relations, and literature. Each student also took one additional course of his own choosing. The Program featured a number of special projects: a weekly seminar with outstanding men in government, labor, and education; attendance at plays and operas; a communications clinic; publication of a student newspaper; and field trips to a union convention and an arbitration conference. In 1964 the Program will expand to a national base by involving additional districts of the Steelworkers Union. By 1965 the Program will be extended to include participants from other national unions.

Special programs of ten to twelve weeks' full-time resident study have also been arranged for groups of representatives from foreign labor organizations in cooperation with the U.S. Department of State, Agency for International Development.

### BUREAU OF PUBLIC DISCUSSION

Owen Hall, Indiana University, Bloomington

ROBERT W. HATTERY, Ph.D., Director, and Assistant Professor of Government.  
 Instructor CRUVER; Research Associates HURST, PARRISH, STAUDT; Research Assistant KRASOVSKIS.

The major responsibility of the Bureau of Public Discussion is to help contribute to a better public understanding of contemporary problems at home and abroad which concern the layman in his role as citizen. It seeks especially to assist adults interested in major questions that call for citizen or governmental action to weigh the relative merits of alternative courses of action.

To aid in the realization of these objectives, the Bureau provides a reference service and from time to time issues briefs and study guides which focus on specific

public problems of major significance. In addition, the Bureau is prepared to work closely with other bureaus, departments, and regional campuses of Indiana University and with all other Indiana institutions of higher education in developing public affairs programs which will enable community and national leaders to come together for periods of intensive study.

**The Public Affairs Reference Service.** The Public Affairs Reference Service, long-known as the "Package Library," is *not* a library where books can be borrowed. Rather, special collections of reading materials are put together by staff analysts of the Bureau for use by persons who ask assistance in the study of specific public problems. Analysts prepare these collections by drawing from the Bureau's extensive files an assortment of newspaper and magazine clippings, pamphlets, organization house organs, and other nonbook materials.

In the course of a year the Bureau receives many thousands of requests for reference materials. Its ability to serve effectively is to a considerable extent determined by the kind of requests that are received. Each request is, therefore, examined carefully to determine whether it is an appropriate subject for the Bureau to handle and whether it can be handled adequately. Only if the request seems to meet these criteria is it assigned to an analyst, or team of analysts, for processing.

In general, any request from an adult or from a school librarian on behalf of a student will be filled if certain of the following conditions apply:

1. If the topic has obvious relevance to contemporary public problems or events.
2. If the topic is specific enough to be covered adequately.
3. If the topic is not too specific or technical.
4. If filling the request does not require the Bureau to commit an unreasonable amount of staff time to scholarly research on a particular subject or to solve problems, write reports, or perform any other task which is properly the responsibility of someone else.

Reference materials are loaned to librarians for an initial period of one month and to individuals for two to four weeks, with the possibility of extension if the material is not in great demand. There is no charge for this service to residents of Indiana, although voluntary contributions are appreciated. Persons living outside the state must arrange to have their local library order materials for them and assume the responsibility for returning them to the Bureau. There is a fee of \$1 to help defray the cost of postage and handling of out-of-state requests.

**Public Affairs Briefs and Problem Papers.** The Bureau issues "briefs" at intervals, each dealing with subjects of special current importance. Readers of the briefs are invited to ask for special reference collections in order to study phases of the subject more fully. Single copies of briefs will be sent without charge to anyone who requests them.

From time to time the Bureau prepares special papers which are designed to assist individuals and study groups to explore a particular problem in depth. When supplemented with one or more reference collections, these papers afford an excellent opportunity to examine complex issues systematically and to consider alternative proposals for dealing with them.

**Special Programs.** The Bureau staff has over the years helped Indiana residents who request assistance in organizing discussion groups and in planning conferences on public affairs. This has been essentially a consultative service provided primarily by mail.

In addition, the Bureau is prepared to assist actively in the planning of programs which bring people together under University auspices to study public affairs, each program to focus on a single area of major current significance. Specialists will be drawn from academic institutions, private organizations, and public life to provide a diversity of viewpoints and to leaven discussion. Attendance usually will be restricted



in order to provide opportunities for everyone to participate fully. Study materials will be made available for participants to read in advance. Finally, it may be possible in some instances to offer highly motivated individuals opportunities to submit special papers to faculty members or fellow participants for critical appraisal.

The reference service, the publications, and the programs have, in summary, one basic objective in common: to help citizens who are interested in current public affairs to gain a deeper understanding of particular problems and issues and of the alternative courses of action.

## BUREAU OF STUDIES IN ADULT EDUCATION

Owen Hall, Indiana University, Bloomington

PAUL E. BERGEVIN, Ed.D., Director, and Professor of Adult Education.

Field Consultants and Assistant Professors HARRY MASON ATWOOD, JOHN MCKINLEY,  
DWIGHT H. MORRIS, ROBERT M. SMITH.

The Bureau of Studies in Adult Education defines adult education as a process for developing mature citizens in a free society, helping them to grow in self-understanding, in understanding of their relationships with their fellow men and of their responsibilities as citizens. In order to implement this definition, the Bureau has as its major purposes:

1. Carrying on research for improved techniques in adult education in order to add to the fund of knowledge in this area and to the understanding of ways in which this knowledge may be used in educating adults.
2. Providing professional training in adult education through a program of graduate study.
3. Providing, through adult education institutes, training in adult education processes and procedures for lay leaders and group participants from many varieties of agencies, organizations, and institutions.
4. Providing field services in adult education for institutions and community groups in Indiana.
5. Disseminating information concerning adult education.

The several areas of endeavor are closely interrelated. For example, the adult education field services provide a setting for research. Results of research improve the content of graduate courses and of adult education institutes. Also, the institutes and field service projects provide internship opportunities for graduate students seeking majors or minors in adult education.

The Bureau's research concentrates on development of, and means of teaching, adult education philosophy and methods; motivation of adults; development of resources for practitioners of adult education; new and more effective patterns of adult learning; improvement of techniques for training lay leaders. Projects which have been, or now are, in operation are (1) hospital adult education, of which one project involved nursing staff, another hospital boards, and a third mental health; (2) adult education in relation to the aged and aging; (3) adult literacy education; (4) adult education in relation to church lay groups; (5) adult education as it can be adapted within industry; and (6) adult education for prison or reformatory inmates.

The graduate program includes courses on adult education theory; on the organization and administration of adult schools in our society and abroad; and on the processes and procedures which have proved, and are proving, effective for group use in adult education. In addition, courses involving practical field experience under supervision—internship—and thesis courses are included.

The institutes detail for lay leaders and others the techniques which research has found to be effective for adult group learning, and involve the participants in practice in the use of these techniques.



INDIANA UNIVERSITY

