

Montana State College Bulletin

Summer Quarter Number

SUMMER QUARTER

June 11 to August 16, 1947

Cool summer days and nights make Montana State College the ideal spot to combine purposeful study with recreational activities. Here, under the direction of regular college staff members and visiting professors of national repute, teachers, college students, veterans and high school graduates can continue or begin work in regular or special fields.



GALLATIN CANYON ROUTE TO YELLOWSTONE PARK

VOL. 1

JANUARY, 1947

NO. 3

Published Quarterly at Bozeman, Montana, by Montana State College
Application for entry as second class matter is pending.



TEN WEEK COURSES

Division of Agriculture

Agricultural Economics and Rural Sociology:

Ag Ec 511, 512, 513, Agricultural Economics Research, 2 to 5 credits each.

R Soc 302, Agricultural Extension Practice, 3 to 9 credits.

Agricultural Education:

Full time graduate studies will be offered leading to Master's degree.

Agronomy & Soils:

Agron 435, Special Problems, 3 credits.

Agron 511, 512, 513, Research in Agronomy, 2 to 5 credits each.

Soils 515, 516, 517, Research in Soils, 2 to 5 credits each.

Soils, 407, Special Problems, 3 credits.

Horticulture:

Hort 105, General Horticulture, 5 credits.

Veterinary Science:

Vet 305, Common Diseases of Animals, 5 credits.

Division of Engineering

Architecture:

Arch 101, 102, 103, Architectural Drawing, 2 credits each.

Arch 134, 135, 136, Architectural Design, 2 credits each.

Arch 234, 235, 236, Architectural Design, 5 credits each.

Arch 311, 312, Working Drawings, 3 credits each.

Arch 334, 335, 336, Architectural Design, 5 credits each.

Arch 434, 435, Architectural Design, 5 and 2 credits each.

Arch 456, Steel Design, 3 credits.

Arch 466, Concrete Design, 3 credits.

Arch 476, Thesis, 5 credits.

Chemical Engineering:

Chemical Engineering courses will be offered if there is sufficient demand.

Civil Engineering:

CE 101, Surveying, 2 credits.

CE 204, Surveying, 4 credits.

CE 315, Materials Laboratory, 1 credit.

CE 335, Mechanics of Fluids, 4 credits.

CE 339, Structural Analysis, 4 credits.

CE 411, Hydraulic Laboratory, 1 credit.

Graduate work in Hydraulic Engineering, Hydraulic Laboratory and Advanced Structural Analysis and Design to be arranged.

Electrical Engineering:

EE 312, Direct Current Machinery, 4 credits.

EE 315, Elem. of Elec. Engineering, 4 credits.

EE 326, Electrical Laboratory, 2 credits.

EE 501, Electric Wave Propagation, 5 credits.

General and Industrial Engineering:

GE 111, 112, Engineering Drawing, 3 credits each.

GE 113, Descriptive Geometry, 3 credits.

GE 301, 302, 303, Mechanics, 3, 5, 4 credits.

IE 323, Engineering Economy, 3 credits.

IE 421, Engineering Administration, 3 credits.

Mechanical Engineering:

ME 103, Pattern Work, 2 credits.

ME 104, 108, Shop Practice, 2 and 6 credits.

ME 201, 301, Machine Shop, 2 credits each.

ME 511, Heating and Ventilating Research, 3-5 credits.

ME 229, Mechanism, 4 credits.

ME 327 or 331, Heat Power, 3 credits.

ME 334, Aerodynamics, 3 credits.

ME Vibrational Analysis, 3 credits.

ME 511, Aeronautical Research, 5 credits.

TEN WEEK COURSES

MONTANA STATE
Summer

Division of Household and Industrial Arts

Home Economics:

HE 415, Institution Experience, 4 credits.
HE 335, House Furnishings, 5 credits.

H Ec Ed 337, School Lunch Feeding, 3 credits.
H Ec Ed 326, Supervised Practice Teaching in
Home Ec Extension, 6 to 9 credits.

Secretarial Studies:

Secr 217, 219, Accounting, 3 credits each.
Secr 325, Economic Geography, 3 credits.

Secr 413, Business Law, 3 credits.

Art:

Art 118, 119, Drawing, 3 credits each.
Art 122, 123, 223, Design, 3 credits each.
Art 131, 132, Crafts, 3 credits each.
Art 227, 228, 302, Water Color Painting, 4, 3
and 4 credits each.

Art 217, Art Appreciation, 3 credits.
Art 325, Costume Design, 3 credits.
Art 427, Graphic Arts, 4 credits.
Art 436, Interior Decoration, 3 credits.

Division of Science

Botany and Bacteriology:

Bact 205, General Bacteriology, 5 credits.
Bact 317, Media Preparation, 2 credits.
Bact 412, Bact. Problems, 1 to 5 credits.
Bact 514, Investigations in Bacteriology, 3 to 8
credits.

Bact 522, Advanced Bacteriology, 1 to 5 credits.
Bot 102, General Botany, 5 credits.
Bot 407, Botanical Teaching, 3 credits.
Bot 417, Botanical Problems, 1 to 5 credits.
Bot 505, Investigations in Botany 3 to 8 credits.

Chemistry:

Chem 100N, General Chemistry, 5 credits.
Chem 103, General Chemistry, 4 credits.
Chem 216, Elem. Organic Chem, 5 credits.

Chem 203, 204, 205, Qualitative Analysis, 4 to 6.
5 to 6, 5 to 6 credits, will be taught if demand
is sufficient.

Economics & Sociology:

Econ 201, Principles of Economics, 3 credits.
Econ 302, Modern Econ. Behaviour, 3 credits.
Econ 306, Conservation of Human and Natural
Resources, 3 credits.

Soc 202, Principles of Sociology, 3 credits.
Soc 312, Social Problems, 5 credits.

English:

Eng 101, 102, 103, Eng. Comp. 3 credits each.
Eng 210, Bible Literature, 3 credits.
Eng 218, Survey of Eng. Literature, 3 credits.
Eng 223, Principles of Journalism, 3 credits.
Eng 314, Contemporary Novel, 3 credits.
Eng 315, Essentials of Pub. Speaking, 3 credits.
Eng 328, Fundamentals of Play Directing, 3
credits.
Eng 332, Literature of the Northwest, 3 credits.

Geology:

Geol 301, General Geology, 4 credits.



TEN WEEK COURSES

Division of Science - (Continued)

Health & Physical Education:

H & PE 101, 102, 103, Physical Ed for men or women, 1 credit each.
H & PE 108, Beginning Swimming, 3 credits.

H & PE 200, Fund. of School Health, 4 cr.
H & PE 230, Recreational Leadership, 4 cr.
H & PE 317, Theory of Teen Games, 4 cr.
H & PE 329, Individual Sports, 3 credits.

History:

Hist 105, History of Civilization, 3 credits.
Hist 463, The Modern World: The Far East, 3 credits.

Hist 464, History of Russia, 3 credits.

Mathematics:

Math 102, College Algebra, 5 credits.
Math 103, Analytical Geom., 5 credits.
Math 201, Engineering Math, 4 credits.
Math 202, 203, Calculus, 4 credits each.

Math 4 HS, Solid Geometry, 5 credits.*
Math 2 HS, Adv. High School Alg., 5 credits.*
*Not to be used for college credit. Other advanced courses on demand.

Modern Languages:

Fr 101, Beginner's French, 4 credits.
Ger 101, Beginner's German, 4 credits.

Span 101, Beginner's Spanish, 4 credits.
Russian 101, Beginner's Russian, 4 credits.
*Spanish 91, Non-collegiate Span., no credit.

Music:

Mus 103, Rudiments of Music, 3 credits.
Mus 104, Sight Singing and Ear Training, 3 credits.
Mus 201, Harmony, 3 credits.
Mus 207, Music Appreciation, 3 credits.
Mus 224, Music Literature, 3 credits.
Mus 316, Orchestration, 3 credits.

Mus 321, 322, 323, Orchestral Instruments, 2 credits each.
Mus 327, Conducting, 3 credits.
Mus 328, Band and Orchestra Administration, 3 credits.
Mus 409, Analysis of Musical Forms, 3 credits.
Mus 411, Music History, 3 credits.
Mus 413, Music Methods & Materials, 3 credits.

Private instruction in Voice, Piano, Brass Instruments, Woodwind Instruments, and String Instruments, 1 credit.

Band, Orchestra, Mixed Chorus, one-half credit each, to be offered if enrollment is sufficient.

Nursing Education:

Z & E 216, Physiology & Anatomy, 5 credits.

N 421, Management & Supervision in Hospital Departments, 5 credits.
N 433, Principles of Ward Instruction in Hospitals, 5 credits.
N 403, Ward Management and Ward Teaching, 5 credits.

Physics:

Phys 230, 240, General Physics, 4 and 3 cr.
Other courses on demand.

Zoology & Entomology:

Z & E 100, General Zoology, 5 credits.
Z & E 206, Int. to Physiology, 4 credits.
Z & E 212, Histological Technique, 3 credits.
Z & E -----, Field Ornithology, -- credits.



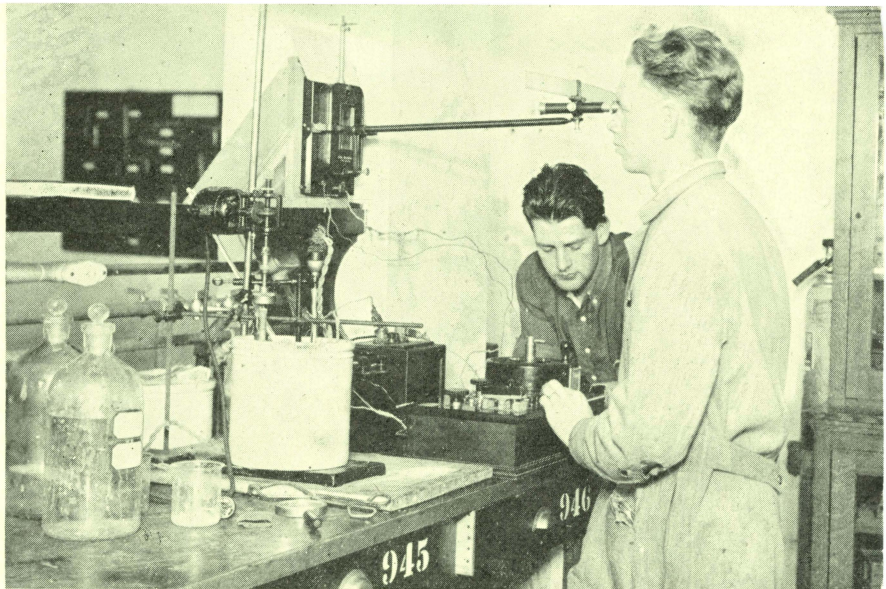
FIVE WEEK COURSES AND WORKSHOPS

Division of Agriculture

Agricultural Economics & Rural Sociology:

R Soc 501, Northern Great Plains Workshop, 3 to 5 credits, July 16 to August 16, 1947.

Division of Household & Industrial Arts



Home Economics:

First Five Weeks — June 11 to July 15, 1947

HE 118, Elementary Weaving, 3 credits.
HE 217, Elementary Foods & Nutrition, 3 to 5 credits.
HE 305, Child Development, 3 credits.
HE 336, Furniture Renovation, 3 credits.
HE 424, Advanced Tailoring, 3 credits.

HE 445, Family Relationships and Personality Development, 3 credits.
HE Ed 412, Adv. Methods of Teaching Home Ec, 3 credits.
HE —, Adv. Home Management, 3 credits.

Second Five Weeks — July 16 to August 16, 1947

HE 409, Nursery School Management, 3 credits. HE 423, Advanced Dietetics, 3 credits.

Art:

Second Five Weeks — July 16 to August 16, 1947

Art 227, 228, 302, Water Color Painting, 4, 3 and 4 credits each. Art 321, Contemporary Art, 3 credits.
Art 405, 406, 407, Oil Painting, 3 credits each.

Division of Science

Botany & Bacteriology:

First Five Weeks — June 11 to July 15, 1947

Bot 103, Systematic Botany, 4 credits.
Bot 313, Plant Ecology, 5 credits.

Bot 407, Botanical Teaching, 3 credits.
Bact 217, Community Hygiene, 3 credits.

Second Five Weeks — July 16 to August 16, 1947

Bot 215, Fresh Water Algae, 3 credits. Bact 206, Sanitary Bacteriology, 3 credits.

To Be Given Both Five Week Periods

Bot 417, Botanical Problems, 1 to 5 credits. Bot 505, Investigations in Bot., 3 to 8 credits.

Chemistry:

First Five Weeks — June 11 to July 15

Chem 101, General Chemistry, 4 credits.

Second Five Weeks — July 16 to August 16

Chem 102, General Chemistry, 4 credits.

Education:

First Five Weeks — June 11 to July 15, 1947

Ed 201, General Psychology, 3 credits.
Ed 309, Secondary School Methods, 3 credits.

Ed 508, Supervision of Student Teaching, 2 cr.
Ed 510, Voc. Guidance Workshop, 1-8 credits.

Second Five Weeks — July 16 to August 16, 1947

Ed 302, Educational Psychology, 3 credits.
Ed 315, Secondary Education, 3 credits.

Ed 510, Nursing Education Workshop. Personnel administration including test construction, job analysis, counseling techniques, 1-8 credits.

Industrial Education: Work will be offered in a variety of courses.

English:

First Five Weeks — June 11 to July 15

Eng 322, Representative Plays of Shakespeare, 3 credits.

Second Five Weeks — July 16 to August 16

Eng —, Literature of the Northwest, 3 credits.

Mathematics:

First Five Weeks — June 11 to July 15

Math 411, Advanced Calculus, 3 credits.
Math 301, Differential Equations, 3 credits.
Math 304, Foundations of Math, 3 credits.

Second Five Weeks — July 16 to August 16

Math 412, Advanced Calculus, 3 credits.
Math 302, Differential Equations, 3 credits.
Math 305, Foundations of Math, 3 credits.

THREE WEEK COURSES

July 16 to August 5, 1947

Bot 214, Preservation of Plant Specimens in Plastics, 1-3 credits.

ONE WEEK WORKSHOP

June 11-18, 1947

Ed 423, Visual Education, 1 credit.

For more detailed information, check and mail this section to Dr. L. O. Brockmann, Director of the Summer Quarter, Montana State College, Bozeman, Montana.

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|------------------------------|------------------------------------|
| Summer Quarter Catalog | Northern Plains Workshop |
| Applied Art Center | Nursing Education |
| Botany & Bacteriology | Plastics Workshop |
| Health Education | Secretarial Studies |
| Home Economics | Visual Education |
| Industrial Education | Vocational Guidance Workshop |

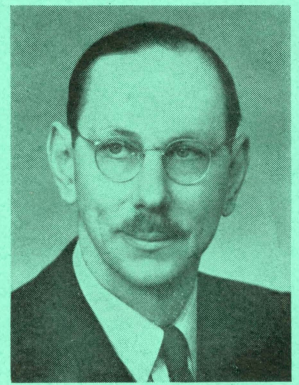
Information about housing may be obtained from: Dean Ethelyn C. Harrison for single women, and Mr. John Lee for men, single or married. Address either at Montana State College, Bozeman, Montana.

Signed, Mrs. _____ Street _____
 Mr. _____
 Miss _____

City _____ Zone _____ State _____

Visiting Staff

Outstanding authorities in vocational guidance, applied art, nursing education, botany, speech and visual education will be on the campus during the summer quarter.



DR. PAUL SEARS
Head, Department of Botany
Oberlin College
Oberlin, Ohio
Consultant in Botany



GEORGE E. HUTCHERSON
Chief, Bureau of Guidance
University of the State of
New York
State Department of
Education
Albany, New York
Will Direct Vocational
Guidance Workshop



DAVID JOHN McCOSH
Professor of Art
University of Oregon
Will Conduct Applied Art
Center

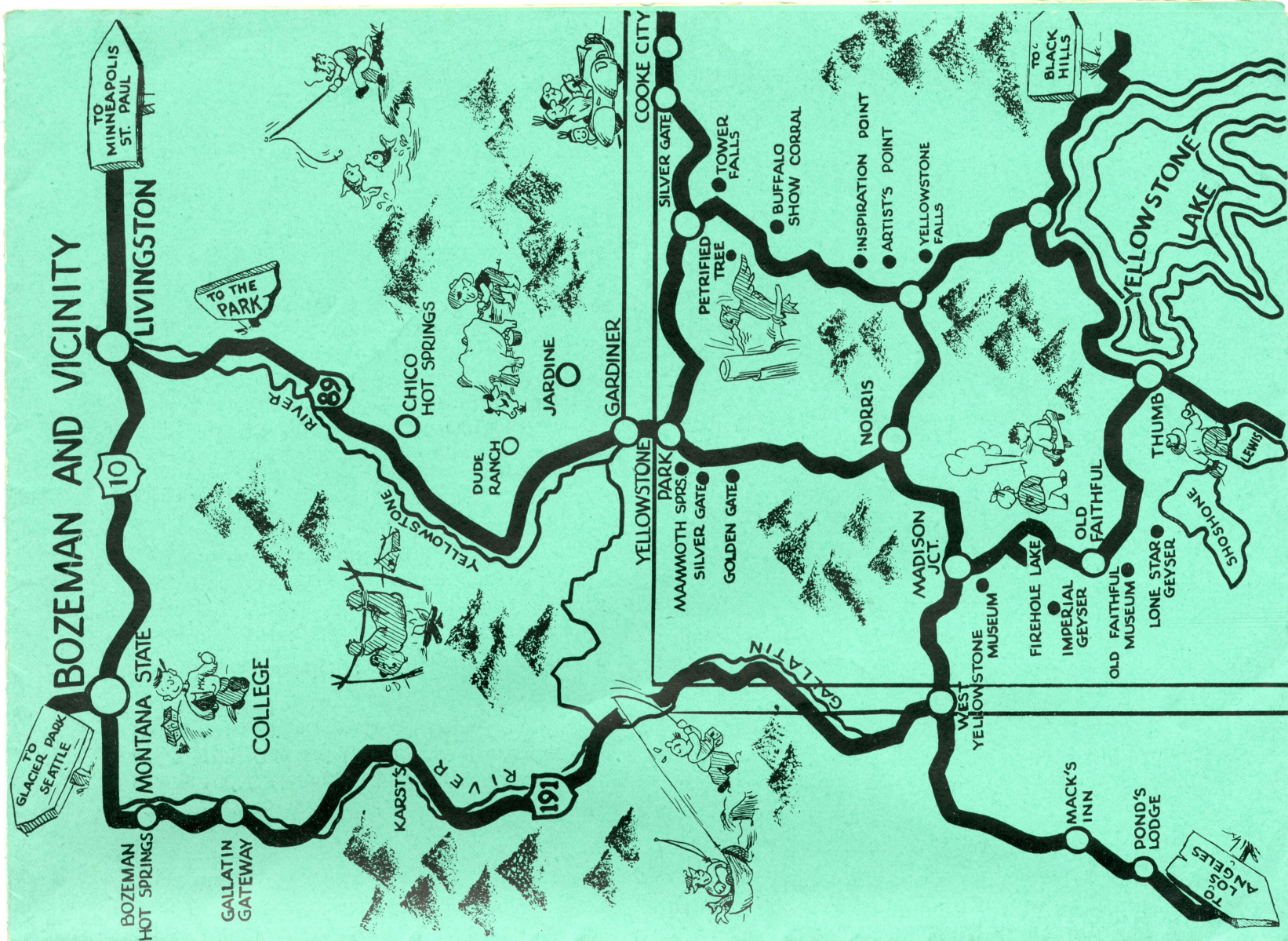


DR. FRANCES TRIGGS
Personnel Consultant
New York City, N. Y.
Will Offer Special Work in
Nursing Education



DR. WALTER WITTICH
Director, Bureau of Visual
Instruction
University Extension Division
University of Wisconsin
Madison, Wisconsin
Will Conduct Visual
Education Workshop





Montana State College Bulletin
 DIRECTOR SUMMER QUARTER
 MONTANA STATE COLLEGE
 BOZEMAN, MONTANA



Application for
 Entry as Second Class
 Matter Is Pending

Mrs. Elizabeth Lochrie
 1102 W. Granite
 Butte, Montana