MINORS, PROGRAMS, AND DEGREES

Clemson University offers 73 Bachelor of Arts and Bachelor of Science degree programs in the Colleges of Agriculture, Forestry, and Life Sciences; Architecture, Arts, and Humanities; Business and Behavioral Science; Engineering and Science; and Health, Education, and Human Development. Bachelor of Arts degree programs require completion of two semesters of a modern foreign language.

MINORS

A minor consists of at least 15 semester credits, with no fewer than nine credits at the 300 level or higher. A student cannot major and minor in the same field or acquire a minor that is not allowed by the degree program. In programs that require a minor, courses may not be used to fulfill both the major and minor requirements. Courses used to fulfill general education requirements, however, may be counted toward the minor. Students are encouraged to contact the department offering the minor for advising. A student may specify one completed minor on the graduation application to be recorded in his/her academic record. Specific requirements are detailed below.

A counting

A minor in Accounting requires A C C T 201, 204, 311, 312, and nine hours selected from 300- or 400-level accounting courses. Students planning to pursue the Master of Professional Accounting degree program should select courses in consultation with the school's graduate coordinator.

A dult/Extension Education

A minor in Adult/Extension Education requires A G ED 403, 440, 445, and six additional credits selected from the following: A G ED 407, 428, (ED F, THRD) 482, PRT M 308.

Aerospace Studies

A minor in Aerospace Studies requires A S 109, 110, 209, 210, 309, 310, 409, and 410. Completion of A S Leadership Laboratory and participation in cadet activities are mandatory. Students must compete for an allocation and be accepted into the Professional Officer Course before enrolling in A S 309.

African American Studies

A minor in African American Studies requires 15 credits at the 300 and 400 levels as follows:

Group I—Three credits from A A S 301, 498
Group II—Three credits from GEOG 330, HIST 338, 339, 438
Group III—Three credits from ENGL 482, 483, HIST 311, 312, PSYCH 381, 460, THEA 317
Group IV—Three credits in any approved course in the humanities

Courses are to be scheduled in consultation with the appropriate advisors. A minor in African American Studies advisors will provide all affected advisors with a list of approved courses prior to registration.

Agricultural Business Management

A minor in Agricultural Business Management requires A P EC 302, 309, 319, and at least two courses selected from A P EC 308, 351, 402, 409, 433, 452, 456, 460.

Agricultural Mechanization and Business

A minor in Agricultural Mechanization and Business requires six credit hours selected from A M 205, 206, 301, 303; and nine credit hours from A M 402, 405, 406, 452, 460.

American Sign Language Studies

A minor in American Sign Language Studies requires 15 credit hours in A S L above the 200 level.

Animal and Veterinary Sciences

A minor in Animal and Veterinary Sciences requires AVS 150 and 151; one course selected from AVS 200, 203, 204, 206; and nine hours selected from AVS 301, 310, 370, 375, 410, 415, 453.

Anthropology

A minor in Anthropology requires A N T H 201 and 15 hours from the following courses: A N T H 301, 320, 331, 351, 403, 495, 498, CH IN (A N T H) 418, JAPN (A N T H) 417, LA N G 371, SOC 433.

Athletic Leadership

A minor in Athletic Leadership requires 17 credit hours arranged as follows: A L 349, 350, 353, 361, 362, 376, and one of the following: A L 371, 372, 373, 374, 375, 377. Students must complete at least one coaching internship or athletic administrative internship under the direction of the Athletic Leadership Minor Coordinator.

Biochemistry

A minor in Biochemistry requires BI O C H 301, 423 or 431, 432, 433, 434 (13 credits), plus at least two credits from any other biochemistry courses at the 300 level or above, BI O S C 416, or a section of BI O S C 493 designated as oriented towards biochemistry or molecular biology.

Bioengineering

A minor in Bioengineering requires at least 15 credits and must include BI O E 302, 320, 401. The remaining six credits may be chosen from B E 312, BI O E 201, 420, 450, BI O S C 222, 223, 458, 459, C M E 210, M E 301, 302, or 308.

Biological Sciences

A minor in Biological Sciences requires 15 credits and must include both a lecture and corresponding laboratory in animal diversity (B I O S C 302/306 or 303/307) and a lecture and corresponding laboratory in plant diversity (B I O S C 304/308 or 305/309); remaining credits (minimum of seven) must be selected from BI O C H, BI O S C, or GEN courses numbered 300 or higher.

Business Administration


Chemistry

A minor in Chemistry requires CH 101, 102, and 15 additional credits in Chemistry, at least nine of which must be at the 300 or 400 level, with the courses selected in consultation with the Department of Chemistry.

Cluster

The Cluster minor allows students a somewhat wider choice of course materials than is possible with the conventional subject-matter minor. The general requirement for the Cluster minor is 15 credits in courses numbered higher than 300, except where noted differently, chosen according to one of the plans listed below. Courses within the student’s major area may not be included in the Cluster minor.

Group I—Social Sciences: anthropology, economics, geography, history, political science, psychology, sociology

Group II—Life Sciences: biochemistry, biological sciences, genetics, microbiology

Group III—Physical Sciences: chemistry, geology, physics

Group IV—Engineering: courses in all engineering majors plus engineering mechanics and engineering graphics

*No course in the 100 series is acceptable toward the minor and not more than six hours in the 200 series are acceptable.

Communication Studies

A minor in Communication Studies requires C O M M 150 and 12 additional credits in communication studies, nine of which must be at the 300–400 level. Three hours at the 400 level must be included.

Communications

A minor in Communications requires 18 credits distributed as follows:

General Communication Option—EN GL 231, 312, and either COM M 305 or 361, PH IL 102, and six elective credits

Advertising Option—A P EC 351, EN GL 231 or 304, G C 104, PSYCH 330, and five elective credits

Commerce Option—A P EC 351 or THRD 468, COM M 305 or 361, EN GL 231 or 304, MGT 301, and six elective credits

Politics Option—EN GL 312 and either COM M 305 or 361, P O SC 341, 343, and six elective credits

E elective credits are approved by the Chair of the Department of English or higher representative.

Community Recreation Management

A minor in Community Recreation Management requires P R T M 301 (preferred) or 101; P R T M 205, 241, 321, and six additional credits from P R T M 304, 307, 308, 317, 352, 391, 403, 421, 441, 452, 455.

Computer Science

A minor in Computer Science requires C P SC 212 and 12 additional credits in computer science of which at least nine credits must be at the 300 level or higher.

Crop and Soil Environmental Science

A minor in Crop and Soil Environmental Science requires AGRIC 104, C S E N V 202, and nine or more credits at the 300 level or higher.
East Asian Studies
A minor in East Asian Studies requires 15 credits of which at least six credits must be at the 400 level, distributed as follows: three credits from Group I, six additional credits selected from Group I or from Group II, and six credits from Group III:

Group I—CHIN (ANTH) 418, HIST 334, JAPN (ANTH) 417, PO SC 372

Group II—HIST 330, 333, PHIL (CHIN) 312, 313, PO SC 472, 477, REL 314, or any other approved courses selected from department list

Group III—E A S 123, JAPN 401, 499, LANG 401, any Chinese or Japanese language course, or any other approved courses selected from department list

Courses in Groups II and III must represent a combination of Chinese and Japanese courses.

Economics
A minor in Economics requires ECON 314, 315, and nine additional credits from economics courses numbered 300 or higher.

Education
A minor in Education requires ED 405, ED F 301, 302, 334 or 335, ED SP 370. This minor does not meet the requirements for teacher certification and is not intended for persons who plan to teach in grades K-12.

English
A minor in English requires 15 credits in English above the sophomore level, arranged as follows:

Group I—EN GL 411

Group II—Three credits from EN GL 396, 397, 407, 408, 410, 414, 415, 416, 417, 418, 444

Group III—Three credits from EN GL 422, 423, 424, 425

Group IV—Six additional credits above the sophomore level, including at least three credits from the 400 level

Department certification of proficiency in composition is required. (See discussion under English major.)

Entomology
A minor in Entomology requires ENT (BEO SCI) 301 and 12 credits in entomology courses at the 300 level or higher.

Entrepreneurship
A minor in Entrepreneurship consists of 15 credits including the following: A CCT 201, ECON (MGT) 306 or 314, and FIN 306. Six credit hours from one of the following tracks are also required: Planning—MKT (E LE) 314, MGT (E LE) 315 Experiential—E LE 301, 401 Foundations—ECON (E LE) 321, SOC (E LE, PO SC, PSYCH) 356

Note: Not open to business majors except BA in Economics.

Environmental Engineering
A minor in Environmental Engineering requires at least 15 credits as follows: EE & S 401 or EN SP 200, at least six credits selected from Group I, and at least three credits from Group II. The remaining three credits may be selected from either group. All II courses are to be chosen in consultation with the Department of Environmental Engineering and Science.

Forest Resource Management
A minor in Forest Resource Management requires either of the following:

1. FOR 305, 315, 460, and a minimum of six credits, selected with a forestry faculty advisor's approval, from any forestry course (for a total of 16 credits)

2. A formal program of study developed by the student and forestry advisor, containing a minimum of 15 credits of forestry courses. Nine credits must be at the 300 level or higher

Geography
The Geography minor consists of three credits of geography at the 100 level plus 15 credits of geography at the 300 or 400 level. At least one 400-level geography course must be taken. One of the following courses may be taken as part of the 15-credit, upper-level requirements but may not be substituted for the required 400-level geography course: BIO SCI 442, R S (SOC) 471.

Geology
A minor in Geology requires GEO L 101, 102, 103, and 12 additional credits drawn from 300- and 400-level geology courses. At least one 400-level course must be included.

Global Politics
A minor in Global Politics requires PO SC 102 or 104, 361; and 12 additional credits chosen from the list below. At least three of these credits must be from Group I and at least three credits from Group II:


Group II—International Politics: PO SC 362, 363, 367, 428, 457, 459

With the approval of the Political Science department chair, PO SC 310, 311, 389, 410, and 489 may be applied to the requirements for the Global Politics minor. Students majoring in Political Science may not minor in Global Politics.

Great Works
The Great Works minor requires G W (ENGL) 301 plus one course from each of the following groups. A minimum of nine credits must be at the 400 level.

Group I—Classical Civilization: T hree credits from ENGL 403, 429, (COM M) 491, HIST 354, 355, 450, PHIL 315, PO SC 450

Group II—Post-Classical Literature: Three credits from ENGL 408, 411, 414, 416, FR 400, GW 403, SPA N 303, 401

Group III—Philosophy, Religion, and Social Thought: Three credits from ENGL 408, 411, 414, 416, FR 400, GW 403, SPA N 303, 401

Group IV—The Arts: Three credits from A A H 423, 424, HUM 301, 302, M USIC 415, 416, THEA 315, 316

Group V—The Sciences: ENGL 434

Health Science
A minor in Health Science requires H LTH 298 plus 12 additional credits drawn from health courses or approved health-related courses (at least six of these hours must be taken in H LTH courses at the 300 level or higher).
Minors, Programs, and Degrees

**History**
A minor in History requires 15 credits in history at the 300 and 400 level. Three credits at the 400 level must be included.

**Horticulture**
A minor in Horticulture requires HORT 101 and 12 additional credits of horticulture courses (excluding HORT 271, 408, 471), nine credits of which must be at the 300 level or higher.

**Human Resource Management**
A minor in Human Resource Management requires 18 credits as follows: MGT 301, 307, 310, 400; plus two of the following: MGT 416, 425, 431, 435.

**International Engineering and Science**
The minor in International Engineering and Science, open to students in any major in the College of Engineering and Science, requires:
1. Completion of a foreign language through at least 202 and
2. Either (a) nine credits of engineering or science courses at the 300 level or higher transferred from a foreign institution during an approved study-abroad program of at least three months, or
(b) an approved international internship or research program in engineering or science of at least three months duration, plus nine credits chosen from 300 level or higher foreign language courses: ECON 310, 412, 413; and PO SC 361, 362, 371, 375, 472, 477, 478.

The International study, internship, or research program must be approved in advance by the Associate Dean for Undergraduate Studies of the College of Engineering and Science.

**Legal Studies**
A minor in Legal Studies requires 15 credits at the 300–400 level, with at least six credits selected from Group I, at least six credits selected from Group II, and the remaining three credits selected from either group at the student’s option:
- Group I — HIST 328, 329, 496, PHIIL 343, PO SC 432, 433, SOC 390
- Group II — ECON 402, LAW 312, 313, 322, 333, 405, 420, 499

A minor in Lawyering requires 12 credits as follows: COMM 348, 480, PRTM 308

**Management**
A minor in Management requires 18 credits as follows: MGT 301, 307, 310, 318, 390, 422.

**Mathematical Sciences**
A minor in Mathematical Sciences requires MTHSC 208 and 12 additional credits in mathematical sciences courses numbered 300 or higher.

**Microbiology**
A minor in Microbiology requires MICRO 305 and eleven additional credits drawn from 400-level microbiology courses.

**Military Leadership**
A minor in Military Leadership requires at least 15 credits including M L 301, 302, 401, 402, and one of the following: HIST 390, NURS 305, or PO SC 428. Completion of Leadership Laboratory and participation in cadet activities are mandatory. (M L 100 and 200 levels may be taken concurrently in the sophomore year.)

**Modern Languages**
A minor in Modern Languages requires 15 credits in one modern language from courses at the 300 and 400 levels, including at least one literature course at the 400 level. In French, one of the 300-level courses must be FR 305. FR H 438 and H 439 and SPA N H 438 and H 439 may not be used to satisfy requirements for the French or Spanish minor.

**Music**
A minor in Music requires MUSIC 151, 152, 205, 206, 207, 208, 251, 252; 415 or 416; four semesters of ensemble, totaling four credits, selected from MUSIC 323, 361, 362, 363, 369, 370, 371, 372; and one three-hour 300–400-level music course.

**Natural Resource Economics**
A minor in Natural Resource Economics requires AP EC 457; C R D (AP EC) 412, ECON 319.

**Nonprofit Leadership**
A minor in Nonprofit Leadership requires NPL 300, 386, and one course selected from each of the following areas:
- Group I — COM M 348, 480, PRTM 308
- Group II — ED F 334, 335, PSYCH 340, SOC 350
- Group III — HLT H 401, M KT 428, 429, PRTM 421
- Group IV — MGT 307, PO SC 427, PSYCH 368
- Group V — HLT H 440, PHIIL 344, PO SC 321, PRT M 305, 321

**Operations Management**
A minor in Operations Management requires 18 credits as follows: MGT 301, 310, 390, 400, 404, plus either MGT 402 or 408.

**Packaging Science**
A minor in Packaging Science requires 18 credits and must include PKGSC 102, 202, 204, and 206. The remaining nine credits may be selected from any of the course listed above.

**Philosophy**
A minor in Philosophy requires 15 credits in philosophy, nine of which must be at the 300-level or above.

**Physics**
A minor in Physics requires PHYS 122, 221, 222, and nine additional credits in physics courses at the 300 level or higher.

**Plant Pathology**
A minor in Plant Pathology requires PL PA 310 and 12 credits from the following: any 300-400-level PL PA courses, BIO SC 425, 426, GEN (BIOS C, MICRO) 418, I P M 401, MICRO 305.

**Political Science**
A minor in Political Science requires PO SC 101, 102, or 104 plus 15 additional credits at the 300–400 level, nine of which must be selected from three different fields of political science as follows:
- American Government — PO SC 403, 405, 416, 432, 442
- Comparative Politics — PO SC 371, 372, 466, 471, 472, 473, 476, 477, 478
- International Politics — PO SC 361, 362, 363, 428
- Political Theory — PO SC 450, 453
- Public Policy and Public Administration — PO SC 302, 321, 421, 423, 424, 430

A minor in Political Science requires 12 credits from the following: any 300-400-level PL PA courses, BIO SC 425, 426, GEN (BIOS C, MICRO) 418, I P M 401, MICRO 305.

**Psychology**
A minor in Psychology requires PSYCH 201 and 15 credits from 300–400-level psychology courses. A total of one 400-level course must be included.

**Public Policy**
A minor in Public Policy requires PO SC 321, 421, and 430, plus nine credit hours in courses dealing with specific policy domains and approved by the Department of Political Science.

**Religion**
A minor in Religion requires 15 credits, nine of which must be at the 300-level or above. PHIIL 303 and PO SC 407 may be included.

**Russian Area Studies**
A minor in Russian Area Studies requires 15 credit hours of which three credits must be in Russian language courses at the 200 level or above. The remaining twelve credits are distributed as follows:
- Group I — three credits from RUSS 307, 340, 360, 361, 398, 460
- Group II — three credits from HIST 385, 386, 387, 494
- Group III — three credits from PO SC 471, 473
- Group IV — three additional credits from any of the course listed above

**Science and Technology in Society**
A minor in Science and Technology in Society requires 15 credits, at least six of which must be at the 400 level. See History Department advisor for list of approved courses.
Screenwriting
A minor in Screenwriting requires 15 credits in ENGL above the sophomore level as follows: ENGL 348, 357, 448 (six credits); and one of the following: ENGL 450, 451, 452, 453, THEA (ENGL) 347, or other course as approved by the departmental Director of Undergraduate Studies.

Sociology
A minor in Sociology requires SOC 201 and 15 credits from sociology and rural sociology courses numbered 300 or higher. At least one 400-level course must be included.

Spanish-Amercian A rea Studies
A minor in Spanish-Amercian Area Studies requires the equivalent of SPA N 202, plus 15 credits distributed as follows: six credits from HIST 340, 341, 342, 440, GEOG 340; six credits from SPA N 308, 311, (PO SC) 382, 403, 422, 435; and ECON 410.

Sport Management
A minor in Sport Management requires PRTM 254, 453, 454, and nine additional credits in PRTM, of which must be selected from PRTM 205, 305, 307, 421, 441, 452, 455.

Textiles
A minor in Textiles requires 15 credits from the following: TEXT 201, 202, 460, and any other approved textile course such as TEXT 308, 314, 416, 426, 428, 440, 470, 471, 472, 475, 476.

Theatre
A minor in Theatre requires 20 credits arranged as follows: three credits of dramatic literature and history (ENGL 410, 411, 429, (THEA) 430, THEA (ENGL) 347); three credits of theatre history (THEA 315, 316, 317); six credits in a sequence (THEA 278/479, 315/316, (ENGL) 347/447, 372/472, 376/476, 377/477 or 487 or 497); six credits in THEA at the 300-400 level; and two credits of THEA 279.

Therapeutic Recreation
A minor in Therapeutic Recreation requires PRTM 301 (preferred) or 101; 311; and 12 additional credits in PRTM, nine of which must be selected from PRTM 412, 417, 418, 420.

Travel and Tourism
A minor Travel and Tourism requires PRTM 301 (preferred) or 101; PRTM 342; and 12 additional credits selected from PRTM 343, 344, 349, 441, 444, 445, 446, either (GEOG) 430 or 447.

Turfgrass
A minor in Turfgrass requires CSENV 202, HORT 212, 412, and two of the following: AG M 402, HORT (CSENV) 433, PL PA (ENT) 406.

Urban Forestry
A minor in Urban Forestry requires a minimum of 16 credits, distributed as follows: Group I — FOR (HORT) 427, 450, 480, HORT 208. Group II — A minimum of three credits selected from C R P 401, HORT 308. Group III — A minimum of three credits selected from ENT 401 or HORT 303.

Wildlife and Fisheries Biology
A minor in Wildlife and Fisheries Biology requires W FB 300; 350; six additional hours selected from 300-level or higher W FB courses, except 463 and 490; and three credits from AP EC 475, BIOSC 464, 468, 470, 472, 477, EN T X TO 400, FOR 415.

Women's Studies
A minor in Women's Studies requires 15 credits at the 300 and 400 level, distributed as follows: Group I — Six credits W S 301 and 459 or 498 Group II — Six credits from core courses ENGL 380, 436, HIST 318, PSY CH 308, SOC 461, and any additional courses approved for Group II Group III — The final three credits may be earned by taking any approved Women's Studies minor course. Courses selected in Groups II and III must represent at least two disciplines. Courses are to be scheduled in consultation with the appropriate advisors. The Women's Studies advisor will provide all affected advisors with a list of approved courses prior to registration.

Writing
A minor in Writing requires 15 credits as follows: Business and Technical Option — A P EC 351 or G C 104, CP SC 120, ENGL 304 or 314, 490, 495 Journalism Option — ENGL 231, 333, 334, 335; one of the following: A P EC 351, COMM 250, CP SC 120, G C 104, ENGL 217, 304, 312, 314, PHIL 102, T H R D 468, and any course approved by the Chair of the English Department. Creative Writing Options Drama — (THEA (ENGL) 347, 447 (six credits), ENGL (THEA) 430, and one of the following: ENGL 312, 410, 411 Fiction — ENGL 345, 432, 445 (six credits), and one of the following: ENGL 312, 418, 425, 426 Poetry — ENGL 346, 446 (six credits), 431, and one of the following: ENGL 312, 416, 417, 444

Additional information is available in the A nnouncements.

PREPROFESSIONAL STUDIES
Clemson University will award the degree of Bachelor of Arts or Bachelor of Science in Preprofessional Studies to a student who is pursuing a degree in a professional school. The student must have also satisfactorily completed three years of undergraduate work in an accredited medical, dental, veterinary, or other accredited professional school, provided the student fulfills the requirements for the three-year program as follows and the other specified conditions are met.

1. A total of two of the three years of preprofessional work, including the third year, must be taken in residence at this University.

2. A minimum of three years of undergraduate work (i.e., preprofessional school credit) must be presented.

3. Normal progress must have been made toward fulfilling the degree requirement of the curriculum in which the student is enrolled at Clemson.

4. The student applying for the Bachelor of Arts or Bachelor of Science in Preprofessional Studies must be recommended by the college at Clemson in which the curriculum that he/she is majoring as a Clemson student is located or by the college in which three years of normal progress toward a degree can be identified.

5. If the combination of preprofessional work and the work in the first year of professional school is equivalent to that which is required in some other bachelor's degree program at Clemson, the college concerned may recommend the other bachelor's degree.

The above requirements and conditions became effective July 1, 1974, and will apply to all students who satisfy these requirements and conditions after that date.

A Clemson student having left the University before receiving the bachelor's degree (prior to July 1, 1974) and having enrolled immediately in an accredited professional postgraduate school may apply for a bachelor's degree from Clemson and have his/her application considered on an individual basis.

The college(s) at Clemson considering the application is authorized to examine the student's entire record in both preprofessional and professional studies and exercise its own judgment concerning the three-year requirement for Preprofessional Studies.

SECOND BACCALAUREATE DEGREE
To complete a second baccalaureate degree, a student must complete a minimum of 30 semester hours at Clemson in addition to the greater number of hours required for either degree and satisfy all course and grade requirements for the second degree.

DO UBLE MAJOR
A student in a Bachelor of Arts degree program may be awarded a single baccalaureate degree with a double major. The two majors may be within a single college or may involve two colleges but are limited to Bachelor of Arts degree programs.

GRADUATE DEGREES
Graduate degrees are available from all five colleges in addition to the interdisciplinary programs offering degrees in Digital Production Arts and Policy Studies. Clemson University offers more than 100 graduate degree programs. The degrees of Doctor of Philosophy, Doctor of Education, Education Specialist, Master of Arts, Master of Science, Master of Agricultural Education, Master of Architecture, Master of Arts in Teaching, Master of Business Administration, Master of Career and Technology Education, Master of City and Regional Planning, Master of Construction Science and Management, Master of Education, Master of Electronic Commerce, Master of Engineering, Master of Fine Arts, Master of Forest Resources, Master of Health Administration, Master of Human Resource Development, Master of Parks, Recreation, and Tourism Management, Master of Professional Accountancy, Master of Public Administration, and Master of Real Estate Development are awarded to students who satisfactorily complete prescribed graduate programs.

Additional information is available in the Bachelor of Arts announcements.

Minors, Programs, and Degrees