

## INTRODUCTION

On June 1, 1968, the Board of Visitors of the College of William and Mary adopted a resolution approving at Christopher Newport College the escalation to a third-year level program for the 1969-70 academic session, whereby the first undergraduate degrees, Bachelor of Arts and Bachelor of Science, could be conferred at the close of the 1970-71 academic session.

The Faculty of Christopher Newport College in consultation with the Branch College Liaison Officer has carefully developed a program for escalation to third- and fourth-year concentrations in several fields, formally approving the curricula in these concentrations at its meeting on October 29, 1968, and the Provost of Christopher Newport College has approved these concentrations and transmitted them to the President of the College of William and Mary.

The President, Vice-President, and the Branch College Liaison Officer, after careful consideration of these proposed concentrations together with the present and future resources of Christopher Newport College in faculty, students, library holdings, and physical facilities, presented these concentrations to the Education Committee of the Board at its meeting on November 9, 1968.

The Education Committee recommended to the full Board that that body approve the escalation to third- and fourth-year, undergraduate degree programs at Christopher Newport College with concentrations in biology, English, government, history, and psychology, beginning in the 1969-70 academic session. The Board of Visitors approved this recommendation at its meeting on November 16, 1968, and authorized the President to request approval of the State Council of Higher Education to initiate these programs.



#### IV. Proposed Program for a Major in Biology

##### A. Program Classification

1. It is proposed to set up a major in biology at Christopher Newport College of the College of William and Mary.
2. The degree in biology would be an undergraduate degree (B.S.).
3. The extended expansion on the third-year level (junior courses) would take place in the academic year 1969-70; the implementation of senior courses would occur in the academic year 1970-71.

The first B.S. degrees in biology would be bestowed in June, 1971.

##### B. Program Justification

1. The objectives of this program are to provide adequate training for students planning to enter the field of biology. Such training will enable students to enter graduate, medical, dental, and pharmaceutical schools, and will prepare them for careers in teaching and research.
2. Graduates in the field of biology are needed at local, State, and national levels in the fields of teaching, conservation, fishery science, wild life, health inspection, seafood industries, and as laboratory assistants.

##### C. Program Expansion

###### 1. Additional courses:

Biology 301. Microbiology. Pre: Biology 101-102, Chemistry 201-202. First semester; lectures three hours, laboratory six hours; four credits.

The principal characteristics of microorganisms and their roles in disease and biochemical transformations will be covered. Current research, classical and modern techniques, biochemistry, sexual and asexual genetics are areas which will be included.

Biology 302. Introductory Marine Science. Pre: Bio. 101-102, Chemistry 101-102. First semester; lectures three hours; laboratory and field trips six hours; four credits.

Physical and chemical properties of the hydrosphere; application of basic ecological principles to the marine environment; history of oceanography. Special emphasis placed on techniques and instruments of marine science.

Biology 305. Plant Anatomy. Pre: Biology 101-102, 208. Second semester. Lectures three hours, laboratory six hours; four credits.

A study of the structures and arrangements of cells and tissues in higher plants. Plant cytology, physiology, taxonomy, ecology, evolution and developmental are included where they relate to anatomy.

Biology 306. Conservation of Natural Resources. Pre: Biology 101-102. Second semester. Lectures three hours, laboratory six hours; four credits.

A study of our soil, plant, water, mineral and marine resources, their interrelationships and the steps necessary to use them wisely for present and future generations. Several field trips will be required.

Biology 307. General Ecology. Pre: Biology 101-102. First semester. A 200 level biology lab course. Chem. 101-102. Lectures three hours, laboratory six hours; four credits.

A survey of major biotic communities and the factors controlling the relation of organisms to their environment. Structure, metabolism, communities, ecosystems and population control will be emphasized.

Biology 313. Cytology. Pre: Biology 101-102, Chemistry 101-102. First Semester. Lectures three hours, laboratory six hours. Four credits.

Structure of plant and animal cells, mitosis, meiosis, fertilization and the relationship of cells to problems in heredity, taxonomy and evolution will be explored.

Biology 401. Genetics. Pre: Biology 101-102 Chemistry 201-202. First semester. Lectures three hours; laboratory six hours. Four credits.

The principles of heredity, variation, and evolution are explored. Hybridization experiments will demonstrate the laws of heredity.

Biology 403. Advanced Marine Science. Pre: Biology 101-102, 302. Chemistry 201-202. Second semester. Lectures three hours, laboratory six hours. Four credits.

More advanced problems in marine science. Marine botany; sedimentation, biology of plankton; ichthyology; pollution biology; parasites of marine organisms; application of statistical methods to analysis of marine data.

Biology 404. Animal Histology. Pre: Biology 101-102. First semester. Lectures two hours. Laboratory six hours. Four credits.

A comparative study of the cells and tissues of invertebrate and vertebrate animals.

Biology 408. General Physiology. Pre: Biology 101-102. Chemistry 201-202. Lectures three hours, laboratory six hours. Four credits. Second semester.

A basic course in physiology at the cellular level of organization. Discussion will include cell structure and function, osmosis, membrane transport, enzymes, photosynthesis, respiration, and other metabolic processes.

Biology 414. Introductory Biochemistry. First semester. Pre: Biology 101-102, Chemistry 201-202. Lectures three hours, laboratory six hours. Four credits.

A study of the molecular basis of life. Physical and chemical properties of selected biochemical pathways will be investigated.

Biology 420. Seminar. First and second semester. Every two weeks for juniors and seniors. Time to be announced. One credit during either junior or senior year.

Discussions by the faculty and students of contemporary problems in biology. Seniors will be required to prepare and present a seminar. Guest lecturers will present an occasional seminar.

#### D. Students

1. Analyzing the percentage of returnees that continue in biology



one can expect the following student numbers in the listed years:

|          |                                   |
|----------|-----------------------------------|
| 1969-70: | 25 students (juniors only)        |
| 1970-71: | 55 students (juniors and seniors) |
| 1971-72: | 75 students (juniors and seniors) |

## E. Faculty

### 1. Current Faculty available for program

Jean E. Pugh, Ph.D., Professor  
 E. Spencer Wise, M.S. (All doctoral work finished save dissertation),  
 Assistant Professor, presently part-time; full time biology in  
 four-year program  
 Ruth O. Simmons, M.Ed., Assistant Professor  
 James V. Miracle, M.A., Instructor, part-time biology  
 Harold Cones, M.S., Instructor  
 Ron Mollick, M.S., Instructor  
 Robert Edwards, Ph.D., Assistant Professor (Will take up duties in  
 February, 1969)

Both present and anticipated work load of all members of the biology department is from 12 to 14 hours.

### 2. Additional faculty anticipated

William K. Neal, M.S. (Ph.D. pending), returning from leave in 1969  
 A microbiologist (to be added in 1969-70), Assistant or Associate  
 Professor  
 A geneticist and/or botanist (2 faculty members to be added of  
 assistant or associate rank)  
 It is proposed, therefore, that two new faculty members be hired in  
 1970-71 (See under cost).

## F. Physical Plant Facilities

1. The Biology Department has 2 large freshman labs, 2 medium sized labs, a large lecture room, and a small lecture room now at their disposal. Far range plans call for us to inhabit the entire East Wing of Gosnold Hall. A complex of 4 offices exist for the staff with additional space in the adjacent wing and there are three large storerooms. The department also has three constant temperature chambers.

The second floor of Gosnold Hall contains 3 labs, one classroom and four offices. This should furnish ample space for the ultimate expansion into 4-year work.

The following equipment is present:

|                     |                                |                                     |
|---------------------|--------------------------------|-------------------------------------|
| 3 ovens             | 1 blender                      | 1 herbarium cabinet                 |
| 2 steam sterilizers | Assorted models                | 1 slide cabinet                     |
| 1 bacteria counter  | 24 AO Spencer series 60        | 1 centrifuge                        |
| 1 small still       | Microscopes                    | 1 pH meter                          |
| 3 refrigerators     | 30 AO Spencers with mechanical | 1 spectrophotometer                 |
| 1 sliding microtome | stages                         | 1 micro-slide projec-<br>tor        |
| 3 kymographs        | 54 Stereomicroscopes           | 1 microstar binocular<br>microscope |
| 1 Amp meter         | 1 vacuum pump-lightweight      |                                     |
| 5 balances          | 1 water bath                   |                                     |

Glassware, chemicals, etc., for normal operation are in stock but not itemized here.

2. Additional facilities include the upstairs the upstairs of the East Wing of Gosnold Hall and the conversion of the small lecture room on the first floor into a laboratory.

|   |              |
|---|--------------|
| Equipment for 3 years                   | \$ 50,844.00 |
| Total for 3 years equipment and faculty | \$ 78,644.00 |

Estimated major equipment and cost by course for three years. Much of the equipment will be used by more than one course.

|                          |           |
|--------------------------|-----------|
| Biology 301 Microbiology | \$5740.00 |
|--------------------------|-----------|

|                                 |         |
|---------------------------------|---------|
| 2 Ultra-violet lights           | 300.00  |
| 1 Phase-contrast microscope     | 2000.00 |
| 12 Hot plates                   | 250.00  |
| 2 Water baths                   | 270.00  |
| 2 High speed centrifuges        | 330.00  |
| 2 Angle head safety centrifuges | 180.00  |
| 1 Isolation chamber             | 800.00  |
| 6 Magnetic stirrers             | 210.00  |
| 1 Barnstead still (model 210)   | 1000.00 |
| Assorted glassware              | 150.00  |
| Assorted cultures               | 50.00   |
| Culture media                   | 200.00  |

|   |           |
|---|-----------|
| Biology 302 Introductory Marine Science |           |
| 403 Advanced Marine Science             | \$4086.00 |

#### I. Field Equipment

|   |          |
|---|----------|
| 50 Plastic buckets                          | \$ 35.00 |
| 1 Sea box                                   | 10.00    |
| 2 Spades                                    | 6.00     |
| Construction material and labor             |          |
| cost for the ark                            | 20.00    |
| 2 Dip nets                                  | 11.00    |
| 1 Throw net                                 | 5.00     |
| 1 20' Seine                                 | 10.00    |
| 2 Plankton nets                             |          |
| 1-mesh 6                                    | 27.00    |
| 1-mesh 12                                   | 35.00    |
| 2 Replacement bags for above                |          |
| 1-mesh 6                                    | 18.00    |
| 1-mesh 12                                   | 26.00    |
| 10' Screen wire, 1/4 mesh (sieves)          | 5.00     |
| 10' Screen wire, 1/16 mesh (sieves)         | 5.00     |
| 300 Plankton and sample jars, 4 oz. & 8 oz. | 150.00   |
| 144 Salinity bottles                        | 11.00    |
| 1 Nanson bottle                             | 118.00   |
| 1 Reversing thermometer for above           | 40.00    |
| 1 Kemmerer water sampling bottle            | 50.00    |
| 1 Dredge                                    | 60.00    |
| 1 Peterson grab (1/4 m)                     | 60.00    |
| 1 Bathy thermograph, shallow water          | 300.00   |

|   |           |
|---|-----------|
| 1 Coleman Metrion II pH meter with temperature compensation | \$ 180.00 |
| 1 Oxygen electrode for above                                | 35.00     |
| 1 Sling pycrometer with extra thermometer                   | 13.00     |

## II. Laboratory Equipment

|  |        |
|--|--------|
| 1 Marvel Air pump  | 20.00  |
| 50 Plastic dish pans   | 35.00  |
| 6 Sorting trays  | 12.00  |
| 20 Assorted squeeze bottles  | 15.00  |
| 10 Thermometers  | 26.00  |
| 12 Finger bowls 4 1/2"   | 14.00  |
| 12 Finger bowls 7 1/2"   | 35.00  |
| 24 BOD bottles 500 ml  | 60.00  |
| 50 Rolls time tape   | 60.00  |
| Chemical budget  | 200.00 |
| Charts, graphs, overhead slides, teaching aids                         | 200.00 |
| Unaccounted for expenses (vessel rental, plastic bags, gasoline, etc.) | 500.00 |

|  |         |
|--|---------|
| 1 Friden model 132 electric calculator | 1680.00 |
|--|---------|

|                                  |         |
|----------------------------------|---------|
| Biology 305 <u>Plant Anatomy</u> | 5950.00 |
|----------------------------------|---------|

|   |        |
|---|--------|
| A0 Spencer Microscope Camera for use with Microstar | 250.00 |
|---|--------|

Slides, preserved materials, glassware

|            |         |
|------------|---------|
| Greenhouse | 5000.00 |
|------------|---------|

|                               |        |
|-------------------------------|--------|
| Projector, for slides, 35 mm. | 200.00 |
|-------------------------------|--------|

|                                     |         |
|-------------------------------------|---------|
| Biology 307. <u>General Ecology</u> | 5890.00 |
|-------------------------------------|---------|

|  |         |
|--|---------|
| 1 Osmotic water pressure device  | 600.00  |
| 1 Hydrothermograph   | 250.00  |
| 1 Foxborough Recording Inst  | 200.00  |
| 3 Probes for above @ 100.00  | 300.00  |
| 1 Wheatstone bridge  | 240.00  |
| 1 Industrial instrument cell for above                                 | 80.00   |
| 1 Dendograph   | 250.00  |
| 1 Friden model 132 electric calculator                                 | 1680.00 |
| 1 Photometer with accs. lens   | 600.00  |
| 1 Pyroheliometer   | 300.00  |
| 2 Branton compass @30.00   | 60.00   |
| 1 Osterizer Blender  | 48.00   |
| 6 10' tapes @ 4.00   | 24.00   |
| 2 100' tapes @12.00  | 24.00   |
| 6 Sedimentation cylinders @ 9.63                                       | 67.00   |
| 24 BOD bottles @28.62 doz.   | 58.00   |
| 1 Set Soil sieves (1 each: #100, #50, #30, #10, 1/4, 1/2) (bottom pan) | 85.00   |
| 1 Sling Psychrometer   | 12.00   |
| 1 Replacement thermometer for above                                    | 3.00    |
| 2 Tree cores @10.00  | 20.00   |
| 4 Atometers @15.00   | 60.00   |

|  |          |
|--|----------|
| Assorted Digging tools & specimen carriers             | \$ 40.00 |
| 50 Flower pots   | 25.00    |
| Misc. Live & preserved material (seeds, etc.)          | 50.00    |
| Charts, graphs, overhead slides, teaching aids         | 200.00   |
| Unaccounted for expenses (plastic bags, buckets, etc.) | 100.00   |

|                            |        |
|----------------------------|--------|
| Assorted animal traps      | 100.00 |
| 1 Soils determination unit | 50.00  |
| 4 Rain gauges              | 100.00 |
| 1 Thermister unit          | 300.00 |

|   |        |
|---|--------|
| Biology 306. <u>Conservation of Natural Resources</u> | 650.00 |
|---|--------|

Much equipment which has been purchased for other courses; especially ecology will be used in this course.

|                      |        |
|----------------------|--------|
| Slides               | 200.00 |
| Maps                 | 200.00 |
| Collecting equipment | 250.00 |

|                              |         |
|------------------------------|---------|
| Biology 313. <u>Cytology</u> | 9560.00 |
|------------------------------|---------|

|  |         |
|--|---------|
| 12 AO Spencer triple-nose piece microscopes<br>with graduated mechanical stages & illuminators | 5760.00 |
| Assorted slides  | 200.00  |
| 2 Micromanipulator   | 1600.00 |
| 1 Phase-contrast microscope  | 2000.00 |

|                              |        |
|------------------------------|--------|
| Biology 401. <u>Genetics</u> | 342.00 |
|------------------------------|--------|

|                                |        |
|--------------------------------|--------|
| Drosophila cultures            | 75.00  |
| Culture medium                 | 70.00  |
| Mold inhibitor                 | 6.00   |
| Culture vials, plugs and caps  | 46.00  |
| Anesthetizer                   | 20.00  |
| Other cultures                 | 25.00  |
| Assorted glassware             | 100.00 |
| Assumes presence of greenhouse |        |

|                                      |         |
|--------------------------------------|---------|
| Biology 404. <u>Animal Histology</u> | 1650.00 |
|--------------------------------------|---------|

|                               |        |
|-------------------------------|--------|
| AO Spencer Rotary Microtome   | 949.00 |
| AO Spencer Razor blade holder | 31.00  |
| 10 Sets of histology slides   | 500.00 |
| Slide warming table           | 90.00  |
| Slides, glassware, paraffin   | 50.00  |
| Chemicals                     | 50.00  |

|  |               |
|--|---------------|
| Biology 408. <u>General Physiology</u> | \$ 11,480.00. |
|--|---------------|

|                        |        |
|------------------------|--------|
| *Magnetic Stirrer      | 40.00  |
| *Stirring hot-plate    | 100.00 |
| *Hot plates (2) @30.00 | 60.00  |
| *Greenhouse            |        |
| Ccst in Anatomy Budget |        |



|   |           |
|---|-----------|
| *Balance, Mettler, Top-Loading                          | \$ 500.00 |
| *Balance, Mettler, Analytical                           | 800.00    |
| *Paper chromatography cabinet                           | 700.00    |
| *Centrifuges, small (2) @80.00                          | 160.00    |
| *Centrifuge, international model uV                     | 850.00    |
| *Dermineralizer   | 100.00    |
| *Distilling apparatus, yoe                              | 50.00     |
| *Carver press   | 375.00    |
| *Ovens, drying (2) @225.00                              | 550.00    |
| *Furnace muffle   | 350.00    |
| *Shaker, heavy duty                                     | 450.00    |
| *Burets, with stands                                    | 300.00    |
| *Pump, vacuum   | 250.00    |
| *Refrigerator, laboratory model                         | 700.00    |
| *Gas analysis apparatus-precision-Warberg               | 600.00    |
| *Calorimeter, bomb, with temperature control, Parr type | 1350.00   |
| *Stirring apparatus, Osterizer, Classic VIII @60.00     | 120.00    |
| *Geiger counter   | 350.00    |
| *Water bath, Blue M Shaker type (Fisher)                | 600.00    |
| *Water bath, serological medium (Fisher)                | 125.00    |
| *Infra-red gas analyzer                                 | 1000.00   |
| Glassware, other usual laboratory                       | 1000.00   |

\*\* Figure is based on assumption that greenhouse facilities requested under Plant Anatomy will be available.

|   |         |
|---|---------|
| Biology 414. <u>Introductory Biochemistry</u> | 2795.00 |
| Polarimeter                                   | 850.00  |
| Steam bath                                    | 250.00  |
| Sonic oscillator, Rayethon                    | 300.00  |
| Dialyzer                                      | 100.00  |
| Vacuum desiccator                             | 100.00  |
| Homogenizer                                   | 200.00  |
| Hand spectroscope                             | 70.00   |
| Distilling apparatus, Kjeldahl, 6 unit        | 425.00  |
| Glassware, other usual laboratory equipment   | 500.00  |

Note: Above figures are based on the availability of all items listed under Physiology

#### G. Library Resources

##### Current Resources

##### School Library

|                         |     |
|-------------------------|-----|
| Books                   | 500 |
| Periodicals and Indexes | 21  |

|                          |    |
|--------------------------|----|
| Department Library Books | 50 |
|--------------------------|----|

##### Totals

|             |     |
|-------------|-----|
| Books       | 550 |
| Periodicals | 21  |



## Estimated additional resources needed to establish program

|                  |            |
|------------------|------------|
| Books - 250      | \$ 2500.00 |
| Periodicals - 70 | 2100.00    |

|                             |         |
|-----------------------------|---------|
| Sub total (first year cost) | 4600.00 |
|-----------------------------|---------|

|  |         |
|--|---------|
| Periodical subscriptions for following years | 4200.00 |
|--|---------|

|                                      |         |
|--------------------------------------|---------|
| Additional books for following years | 5000.00 |
|--------------------------------------|---------|

|                            |          |
|----------------------------|----------|
| Total cost for three years | 13800.00 |
|----------------------------|----------|

## H. Cost

|                                      |           |
|--------------------------------------|-----------|
| Total cost for whole degree program: | 92,444.00 |
|--------------------------------------|-----------|

## 1. There will be no initial cost for equipment and facilities

|         |                    |              |
|---------|--------------------|--------------|
| 1968-69 | no additional cost |              |
| 1969-70 | 5 new courses      | \$ 25,017.00 |
| 1970-71 | 6 new courses      | 25,827.00    |

## Additional faculty costs:

|         |                                    |              |
|---------|------------------------------------|--------------|
| 1968-69 | 1 Assistant or Associate Professor | 8900.-10,000 |
| 1970-71 | 1 Assistant and 1 Associate        | 20,000       |

## Additional library costs:

|         |         |
|---------|---------|
| 1968-69 |         |
| 1969-70 | 4600.00 |
| 1970-71 | 9200.00 |

## 2. Title VI - Federal Matching Grants

Possibly some local business support

#### IV. Information concerning the new program in English:

##### A. Program Classification:

1. It is proposed to set up a major in English at Christopher Newport College of the College of William and Mary.
2. The degree in English would be an undergraduate degree (B.A.).
3. The extended expansion on the third-year level (junior courses) would take place in the academic year 1969-70; the implementation of the senior courses and the granting of the first degrees would occur in the academic year 1970-71, with the first B.A. degrees bestowed in June, 1971.

##### B. Program Justification:

1. The purpose of the major in English is to provide Peninsula-area students with the opportunity to become generally and deeply versed in English and American language and literature.
2. Some majors may continue on to do graduate work in this field; many others will probably wish to qualify as secondary-school teachers. Perhaps some will turn to journalism or to some other writing career. In addition, advisors in some professional graduate fields, such as law, often recommend undergraduate degrees in English. Courses in English and American literature are also valuable elective support for other majors, especially those in the humanities and social sciences.

##### C. Program Expansion:

###### 1. Additional (or Revised) Courses:

English 301. English Literature of the Renaissance. A critical and historical study of the major prose, poetry, and drama of the 16th century, exclusive of Shakespeare. 3 credits.

English 302. English Literature of the Earlier 17th Century. A critical study of the major prose, poetry, and drama produced in England between 1600 and 1660, exclusive of Shakespeare. 3 credits.

English 303. English Literature of the Restoration and Earlier Eighteenth Century. A critical and historical study of the major works of the Age of Dryden and the Age of Pope. 3 credits.

English 304. English Literature of the Later Eighteenth Century. A critical and historical study of the prose, poetry, and drama created in England between 1740 and 1798, with some emphasis on the novel. 3 credits.

English 309. English Literature of the Romantic Movement, I. A critical and historical study of the major early Romantics (Blake, Burns, Wordsworth, and Coleridge) with attention also to the early Romantic novel, drama, and essay. 3 credits.

English 310. English Literature of the Romantic Movement, II. A critical and historical study of the major later Romantics (Byron, Shelley, and Keats) with attention also to the later Romantic novel, drama, and essay. 3 credits.

English 321. English Literature of the Victorian Age, I. A critical and historical study of the drama, poetry, and prose (including the novel) produced in England from 1832-1858. 3 credits.

English 322. English Literature of the Victorian Period, II. A critical and

historical study of the drama, poetry, and prose (including the novel) produced in England between 1858 and 1901. 3 credits.

English 325. English and American Poetry of the Twentieth Century. A critical study of the major poetry produced in England and the United States from the beginning of the century till the recent past. 3 credits.

English 326. Major World Fiction of the Twentieth Century. A critical study of the great fiction produced in countries of the Western world (including England and America) since the beginning of the century, with emphasis on the novel. 3 credits.

English 327. Major World Dramas of the Twentieth Century. A critical study of the great dramas produced in countries of the Western world (including England and America) since the beginning of the century. 3 credits.

English 341. American Literature, I. A critical and historical analysis of the major American writers from the beginnings to Whitman. 3 credits.

English 342. American Literature, II. A critical and historical analysis of the major American writers from Whitman to the present. 3 credits.

#### Senior level:

English 401. Chaucer. A critical study of the works of Chaucer in the original Middle English with special emphasis on The Canterbury Tales. 3 credits.

English 421-2. Shakespeare. A critical study of the major works of Shakespeare. 6 credits. Required of all English majors.

English 430. Advanced English Grammar. A concentrated review of descriptive English grammar, with some emphasis on the new trends in the subject. 3 credits. Required of those who plan to teach English.

English 431. Structural History of the English Language. An historical study of the development of the English language. 3 credits.

English 433. Rhetoric. A review of the major theories of effective composition of the essay from Aristotle to the present, and an intensive study of the implementations of these theories. The student will experiment with each stylistic type to clarify the nature and function of style and to prepare him for the teaching of composition. 3 credits. Recommended for those who wish to teach English.

English 435. Fiction writing. Intensive practice in the writing of fiction, with special emphasis on the short story. Attention to selected examples of the genres by contemporary authors. Manuscripts read and discussed in class. Individual conferences. 3 credits.

English 436. Poetry Writing. Intensive practice in the writing of poetry. Analysis of contemporary poetic techniques. Manuscripts read and discussed in class. Individual conferences. 3 credits.

English 495-496. Senior Seminar. A seminar course concentrating on the in-depth study of British authors and requiring a major research paper on one author each semester by each student. 2 credits each semester. Required of all English majors.

#### D. Students

1. Analyzing the percentage of returnees that continue in English one can



expect the following numbers in the listed years:

1969-70 - 20 students (juniors only)

1970-71 - 45 students (juniors and seniors)

1971-72 - 60 students (juniors and seniors)

#### E. Faculty

##### 1. Current faculty available to the program

W. Stephen Sanderlin, Jr., Ph.D., Professor  
 Joyce Sancetta, Ph.D., Associate Professor  
 Albert Millar, Ph.D., Assistant Professor  
 Barry Wood, M.A., Assistant Professor  
 Jane Chambers, M.A., Assistant Professor  
 Ursula Riddick, M.A., Instructor  
 Talmadge Pierce, M.A., Lecturer

All members of the English staff have a workload of twelve hours, save for Mr. Pierce, a part-time lecturer who is carrying six.

##### 2. Additional faculty needed

One instructor (with some emphasis in his preparation on modern grammar and linguistics) 1969-70

One associate professor (preferably in Renaissance literature--Shakespeare and Milton) 1970-71

(If the program grew as fast as may be true as the college gets six majors, additional beginning instructors might be needed to teach the required lower-level courses).

#### F. Physical Plant Facilities and Equipment

1. The English Department has available six classrooms (and others in Christopher Newport Hall are available, if needed).

2. The equipment listed in the business program is also available to members of the English Department. This includes:

- 1 - Autotutor - Mark II
- 1 - Camera and Flash attachment - Minolta
- 1 - Film Strip Projector - Bell and Howell w/3 slide magazines
- 2 - Movie Projectors, 16mm. - Bell and Howell, Sound and Silent, take-up reel
- 1 - Opaque Projector
- 2 - PA Amplifier FM a 35 w/turntable - w/microphone and stand, 2 speakers
- 1 - Screen w/stand - portable
- 1 - Slide Projector - Airequipt
- 3 - Record Players - Stereo
- 3 - Tape Recorders - Califone, Concord Stereo, Wollensak
- 2 - PA System and Record Player
- 3 - Overhead Projectors - 1 Portascribe, 2 Delineascope

### G. Library Resources

1. At the present time, there are approximately 1800 volumes in the library that directly support the courses in English and American language and literature. Fourteen periodicals are regularly received in these areas.

2. Since the English Department has been careful to have ordered books needed for projected advanced courses, the holdings in American literature, English literature of the nineteenth century, and modern literature are reasonably extensive. But sizable additions would have to be made as new junior- and then senior-level courses are added, all to be taught at least every other year.

It is supposed that the following would meet the needs of the first three years of the program:

1969-70: An additional 400 volumes for a total cost of c. \$4000

1970-71: An additional 400 volumes at a total cost of c. \$ 4000

1971-72: An additional 400 volumes at a total cost of c. \$ 4000

This figure does not include, of course, volumes of new fictional works and other such automatically purchased volumes.

### H. Cost

|                     | <u>1969-70</u> | <u>1970-71</u> | <u>1971-72</u> |
|---------------------|----------------|----------------|----------------|
| Salaries:           |                |                |                |
| Current staff:      | \$56,100       | \$60,000       | \$63,000       |
| Additional Staff:   | \$ 7,700       | \$13,400       | \$20,240       |
| Total faculty cost: | \$63,800       | \$73,400       | \$83,240       |
| Library:            | \$ 7,000       | \$ 4,000       | \$ 4,000       |

Revenue: A large percentage of the revenue of Christopher Newport College comes from the State, the officials of which have approved the expansion of the program of the college and have guaranteed financial support for this expansion.

In addition to moneys coming from the state, the college derives varying amounts of income from the following sources:

Student fees, gifts and donations, veterans handling charges, library fines, transcript fees, telephone commissions, application fees, late filing fees, diploma fees, testing fees, examination fees, breakage fees, insurance recoveries, parking fines and fees, and profits from bookstore.

#### IV. Information concerning the new program in Government:

##### A. Program Classification:

1. It is proposed that a program in Government be offered by a Department of Government of Christopher Newport College of the College of William and Mary.
2. The degree in Government would be an undergraduate degree. Bachelor of Arts.
3. The expansion of the second-year and third-year level (sophomore and junior courses) is proposed for the academic year 1969-70: the senior courses would take place during the 1970-71 academic year; the first B.A. degrees in Government would be granted in June, 1971.

##### B. Program Justification:

1. The program of instruction in Government is designed to provide a broad background for the student's understanding public affairs and to introduce the student to several fields of the study of Government, including comparative government, political theory, international relations, and American government.
2. Four categories of students will be served by the proposed program:  
(1) those who need preparation toward a career in government at the middle level of management, (2) those who can qualify for graduate and professional schools, (3) those who wish to teach Government in secondary schools, and (4) those who desire a study of politics for its intellectual benefits.

##### C. Program Expansion:

###### 1. Additional Courses:

Government 202. Comparative Government: Non-Western Governments. Three credits. Comparative study of the nature and causes of the processes of modernization in selected developing nations, including the impact of urbanization, revolutions, reform, nation-building, and social and economic influences upon political order.

Government 251. Major Political Philosophers. Three credits. Survey of representative thinkers in the classical and modern tradition, including Plato, Aristotle, Machiavelli, Hobbes, Locke, Rousseau, and Burke.

Government 252. Introduction to Political Behavior. Three credits. An analytical examination of the behavioral approach to the study of politics.

Government 321. International Relations. Three credits. An analysis of the fundamental ingredients of international politics including sovereignty, nationalism, national power, diplomacy, imperialism, war, balance of power, collective security, international organization, disarmament and arms control, and the Cold War.

Government 322. American Foreign Policy. Three credits. A study of the "national interest" in the development of American foreign policy, constitutional framework, presidential and congressional leadership, pressure groups and public opinion, and the American response to a changing world environment.

Government 361. Functions and Policies of American Government. Three credits. An investigation of the processes of policy-making in the framework of cooperative federalism with emphasis on such areas of public concern as fiscal; agriculture; government regulation of business; health, housing and welfare; education; labor; transportation.



Government 362. State and Local Government. Three credits. A survey of the structure, functions, and problems of state and local governments in the United States.

Government 371. Introduction to Public Administration. Three credits. Survey of administrative organization; organization theory; administrative behavior; politics and administration; personnel and budgetary processes; administrative responsibility.

Government 372. Administrative Management. Three credits. An analysis of problems of public service, emphasizing managerial supervision and control, staff responsibilities and relationships, managerial relations with personnel and budgetary processes, program planning and reporting, purchasing.

Government 381. Public Personnel Administration. Three credits. An examination of basic principles and functions of personnel administration in the public service, including recruitment, placement, wage and salary administration, training, retirement, and other personnel functions.

Government 391. Governmental Budgeting. Three credits. Basic concepts, principles and practices in governmental budgeting; the interrelation of planning, programming, and budgeting.

Government 396. Constitutional Interpretation. Three credits. A study of the role of the Supreme Court in developing the United States Constitution. The case method with collateral reading is used.

Government 401. Law and Political Community. Three credits. A review of the leading schools of legal thought, fundamental principles and concepts of law, the framework of legal institutions, and judicial procedure. Emphasis is placed on the relation of law and the citizen and the function of law as an instrument of social and political policy.

Government 441. Seminar: American Politics and Public Policy. Three credits. Research in the formulation and execution of public policy in a democratic society with emphasis on research methods and designs.

Government 451. Urban Government and Administration. Three credits. An examination of reform ideology, formal organization, external relations; structure and distribution of influence; role of bureaucracy; policy issues.

Government 461. Introduction to Urban Planning. Three credits. A study of the structure of urban communities; history, processes, and objectives of planning; organization, methods, and practices of urban housing and redevelopment agencies.

Government 471. Local Government Law. Three credits. Powers of local governments, their organization, zoning, and land use regulations, financial affairs, liabilities, metropolitan problems and relations.

Government 481. Government Finance. Three credits. An examination of the structure and administration of public finance of local governments.

Government 491-492. Practicum in Municipal Administration. Six credits. Offered in cooperation with the Cities of Hampton and Newport News, and the County of York. A comprehensive study of the departments of local government, requiring research papers, lectures, conferences, field trips, and part-time work experiences under the supervision of city officers and the College staff.

3. Some of these courses, particularly those in urban affairs and administration, will be offered in alternate years.

#### D. Students:

1. Analyzing the percentage of returnees that continue in Government, one can expect the following numbers in the listed years:

1969-70 - 20 students (juniors only)

1970-71 - 45 students (juniors and seniors)

1971-72 - 60 students (juniors and seniors)

#### E. Faculty:

1. Current faculty available to the program:

Joseph R. Ambrose, M.A. (Ph.D. pending), Assistant Professor of Government

C. Harvey Williams, Jr., M.A., Assistant Professor of Government

The full-time person (Mr. Ambrose) is expected to teach twelve hours each semester (or the equivalent); Mr. Williams, as Assistant Dean of Students, is expected to teach six hours.

2. Additional Faculty needed:

One full professor with a Ph.D. in public administration and local government. 1969-70

3. Qualified administrative officials of local governments with Master of Arts or Master of Science Degrees may serve as adjunct professors. An adjunct professor would teach no more than one course in any one semester and would be limited to that part of the curriculum involving his particular expertise.

#### F. Physical Plant Facilities:

1. The Government department has the use of two classrooms, and actually the entire space of Christopher Newport Hall can be used by the department when properly scheduled. No further space is at present necessary, and all required facilities are present in the building used and in the classrooms.

2. The equipment listed in the business program is also available to members of the Government Department. This includes:

- 1 - Autotutor - Mark II
- 1 - Camera and Flash attachment - Minolta
- 1 - Film Strip Projector - Bell and Howell w/3 slide magazines
- 2 - Movie Projectors, 16mm. - Bell and Howell, Sound and Silent, take-up reel
- 1 - Opaque Projector
- 2 - PA Amplifier FM a 35 w/turntable - w/microphone and stand, 2 speakers
- 1 - Screen w/stand - portable
- 1 - Slide Projector - Airequipt
- 3 - Record Players - Stereo
- 3 - Tape Recorders - Califone, Concord Stereo, Wollensak
- 2 - PA System and Record Player
- 3 - Overhead Projectors - 1 Portascribe, 2 Delineascope

## G. Library Resources:

1. The library currently has 560 books available in political science and American government.

2. It is supposed that the following rate of acquisitions in government and political science would more than meet the needs of the government major during the first three years:

1969-70: 800 volumes at a cost of c. \$8000

1970-71: 800 volumes at a cost of c. \$8000

1971-72: 800 volumes at a cost of c. \$8000

## H. Cost:

|                     | <u>1969-70</u> | <u>1970-71</u> | <u>1971-72</u> |
|---------------------|----------------|----------------|----------------|
| <u>Salaries:</u>    |                |                |                |
| Current staff:      | \$16,600       | \$18,000       | \$18,900       |
| Additional staff:   | \$10,000       | \$11,000       | \$24,000       |
| Total faculty cost: | \$26,600       | \$29,000       | \$42,900       |
| Library:            | \$ 8,000       | \$ 8,000       | \$ 8,000       |

Revenue: A large percentage of the revenue of Christopher Newport College comes from the State, the officials of which have approved the expansion of the program of the college and have guaranteed financial support for this expansion.

In addition to moneys coming from the State, the college derives varying amounts of income from the following sources:

Student fees, gifts and donations, veterans handling charges, library fines, transcript fees, telephone commissions, application fees, late filing fees, diploma fees, testing fees, examination fees, breakage fees, insurance recoveries, parking fines and fees, and profits from bookstore.



#### IV. Proposed Program for a Major in History:

##### A. Program Classification:

1. It is proposed to set up a major in history at Christopher Newport College of the College of William and Mary.
2. The degree in history would be an undergraduate degree (B.A.).
3. The expansion on the third-year level (junior courses) would take place in the academic year 1969-70, the implementation of senior courses would occur in the academic year 1970-71.

The first B.A. degrees in history would be bestowed in June, 1971.

##### B. Program Justification:

1. There is no easily available city-college high-quality program of studies in history leading to the B.A. degree in the Peninsula area: Old Dominion College is inconvenient for such students.
2. Although history is one of the most important and popular fields of study on almost all college campuses, there are still too few undergraduate programs in history, either in Virginia or in the nation as a whole, to satisfy the increasing numbers of college students interested in the subject. The establishment of a major in history at Christopher Newport College would help remedy this deficiency.

##### C. Program Expansion:

###### 1. Additional Courses:

#### AMERICAN HISTORY

History 301-302. The Colonial Period and the American Revolution. Continuous course; lectures three hours; three credits each semester. Prerequisite: History 201-202.

The first semester will emphasize the European background of the American colonies and the story of the settlements in North America during the seventeenth and eighteenth centuries. Attention will be given to the social and intellectual aspects of colonial life as well as to developments of colonial government. The second semester deals with origins course, and impact of the War for Independence, and the basis of the establishment of a new government in 1787.

History 311. The United States: Federal and Jeffersonian Periods, 1787-1824. First semester; lectures three hours; three credits. Prerequisite: History 201-202.

This course is an intensive study of the formation of the new government under the Constitution, concentrating upon the basis of the economic and political cleavages appearing in the period.

History 312. The United States: 1824-1860. Second Semester; lectures three hours; three credits. Prerequisite: History 201-202.

This course is an intensive examination of the political, economic, intellectual, and social history of the Jacksonian era, with emphasis on such dominant issues as the broadening of the democratic processes, expansionism, sectionalism, slavery, and reform movements, and including studies of outstanding figures of the period.

History 315-316. Economic American History. Continuous course; lectures three hours; three credits each semester. Prerequisite: History 101-102.

A survey of American economic growth and development from the period of settlement to the present. Emphasis and outside readings will be directed to the economic forces and factors that influenced and contributed to the emergence of the United States as a world power. The course divides at 1877.

History 325-326. Introduction to Latin American History and Culture. Continuous course; lectures three hours; three credits each semester. Prerequisite: History 101-102.

The first semester will begin with a study of conquest and colonization of Latin America by Spain and Portugal. Attention will be given to the effect of the conquest and colonization upon Indian cultures; as well as the religious, social, economic and cultural development of the colonies and newly emerging nations down to the 1850's. The second semester will stress the establishment of these nations as political entities and their relationship to Europe and the United States up to the present.

History 331-332. Civil War and Reconstruction. Continuous course; lectures three hours; three credits each semester. Prerequisite: History 201-202.

The secession movement, the struggle for Southern independence; state and national problems during the period of Reconstruction.

History 341-342. History of the South. Continuous course; lectures three hours; three credits each semester. Prerequisite: History 201-202.

This course is an intensive study of the regional history of the South, emphasizing the regional as against the national characteristics of the area. The first semester covers the period from colonial days to the end of the Civil War. The second semester examines reconstruction as it affected the South, and subsequent developments to the present day.

History 401-402. The United States Since 1877. Continuous course; lectures three hours; three credits each semester. Prerequisite: History 201-202, Junior standing, or written permission of the instructor.

The emergence of the United States as an industrial and world power.

History 411-412. Diplomatic History of the United States. Continuous course; lectures three hours; three credits each semester. Prerequisite: History 201-202, Junior standing, or written permission of the instructor.

This course is an examination of the United States in its relations with the rest of the world. The first semester presents a detailed treatment of the foreign relations of the United States from the Revolution to the end of the Nineteenth Century. The second semester emphasizes the emergence of the United States as a world power, the diplomacy of World War I, the return to isolationism, and the role of world leadership during and since World War II.

History 425-426. Latin American Independence Movements. Continuous course; lectures three hours; three credits each semester. Prerequisite: History 321-322.

The first semester treats in depth the causes, progress, and results of the independence movements which created the twenty republics of Latin America. The second semester emphasizes the republics' continuing problems which are related to the experiences of the colonial and independence periods.

## EUROPEAN HISTORY

History 361-362. Russian History. Continuous course; lectures three hours; three credits each semester.

The first semester begins with the formation of the Russian state in the city of Kiev. Byzantine political, cultural, and religious influences. The "Tartar Yoke." The Unification of Russia under the leadership of Moscow. Ivan the Terrible. The religious schism of the 17th century. The second semester begins with Peter's reforms. The ascendancy of the nobles under Catherine the Great. The Decembrist Revolt. The Police state of Nicholas I. The Crimean War. The "Great Reform" period. The birth of the revolutionary parties. Background to World War I. Lenin and the Russian Revolution. Stalin. World War II. Khrushchev. The Soviet Union today.

History 371-372. History of Asia. Continuous course; lectures three hours; three credits each semester. Two lectures and one quiz section per week.

The course focuses on China, Japan, Korea, and Southeast Asia, and it begins with a consideration of the dominant role of the Chinese civilization in Asia. The traditional role of the state and the emperor in China. The dynastic cycle.

Characteristics of Chinese culture. Japan, Korea, and Southeast Asia are considered primarily as variant reflections of Chinese influence. The second semester begins with the opening of Asia to western influences in the 19th century. The Opium Wars. The Meiji Restoration. The Modernization of Asia. The birth of Asian communism. The Nationalist Government. Fascism in Japan. The Chinese Communists. World War II. Asia today.

History 381-382. European History From 1500-1815. Continuous course; lectures three hours; three credits. Each semester.

The course begins with the emergence of strong monarchies or the modern state. Expansion of Europe. The Protestant Reformation and the Catholic Counter Reformation. The 16th century civil and international wars. England under the Tudors and Stuarts to the Restoration. The emergence of Russia and Prussia. The Thirty Years War.

The Age of Louis XIV and French predominance. The 17th and 18th Century European Wars. The Age of Enlightenment. The French Revolution and the Napoleonic Era. The course divides at the Thirty Years' War.

History 391-392. European History Since 1815. Continuous course; lectures three hours; three credits each semester. Two lectures and one quiz section per week.

The course begins with the Congress of Vienna. Metternich. The return of the Bourbons. The July Monarchy. The Revolutions of 1848. Reform period in England. The Industrial Revolution. Napoleon III. The creation of new nation-states. Bismarck. The European alliance system. Imperialism and the arms race. The catastrophe. The second semester begins with the Versailles settlement. The threat of Bolshevism. The Weimar Republic. The new mood in European culture. Hitler. Mussolini. World War II. A world divided. The UN. Europe today.

History 461-462. The Ancient World. Continuous course; lectures three hours; three credits each semester.

The first semester will deal with the origin and nature of the early great civilizations between the Nile and Indus rivers; the rise of the Greek city-state; Minoan and Mycenaean civilizations; Greek democracy; Greek imperialism before and after Alexander. The second semester will deal with the early peoples of Italy, including the Etruscans; the political, social, and institutional evolution of the Roman Republic; the expansion, organization, and eventual decline of the Roman Empire.

History 471-472. Medieval History. Continuous course; lectures three hours; three credits each semester.

The decline of the Roman Empire, the barbarian invasion, the rise of Christianity, feudalism, and the beginnings of nationality.

History 481-482. Renaissance and Reformation. Continuous course; lectures three hours; three credits each semester.

This course in the cultural history of Europe from the fourteenth through the seventeenth centuries will seek to probe the origins of the modern Western mind. Sympathetic attention will be given to artistic and ethical values; to religious, philosophical, and scientific world views; and to exploration, war, politics, and socio-economic circumstance.

History 491-492. England Under the Tudors and Stuarts. Continuous course; lectures three hours; three credits each semester.



The first semester, 1485-1603; the second semester, 1603-1714.

#### Other Course:

History 395. Historiography. Each semester; lectures one hour; one credit. Required of all history majors.

This course is a study of historians and history past and present; what history is, how it was written, and why it was written that way, and is centered around the research facilities of the college library. Emphasis is placed on the development of a philosophy of history, on the changing concepts of history, on the evolution in historical methods, and on the reasons for these changes.

#### D. Students:

1. Analyzing the percentage of returnees that continue in history, one can expect the following numbers in the listed years:

1969-70 - 20 students (juniors only)

1970-71 - 45 students (juniors and seniors)

1971-72 - 60 students (juniors and seniors)

#### E. Faculty:

1. Current faculty available to the program:

John H. Atwell, Jr., Assistant Professor, M.A. (Ph.D., pending)  
Robert Usry, Assistant Professor, M.A.  
Richard McMurren, Assistant Professor, M.A.

Two of the professors in history have a load of eleven hours and one (who is also the placement officer of the college) has a part-load of seven hours.

2. Additional faculty needed:

One associate professor (in American history), Ph.D. 1969-70.

Two instructors (one instructor and one assistant or associate professor), an M.A. and a Ph.D. 1970-71.

#### F. Physical Plant Facilities and Equipment:

1. The history department now has the use of two lecture halls and two classrooms, and, indeed, all the rooms in Christopher Newport Hall are able to be used at properly scheduled times by members of the history department. At present, no additional facilities are needed.

2. The equipment listed for the business program is also available to members of the history department. This includes:

- 1 - Autotutor - Mark II
- 1 - Camera and Flash attachment - Minolta
- 1 - Film Strip Projector - Bell and Howell w/3 slide magazines
- 2 - Movie Projectors, 16mm. - Bell and Howell, Sound and Silent, take-up reel
- 1 - Opaque Projector

- 2 - PA Amplifier FM a 35 w/turntable - w/microphone and stand, 2 speakers
- 1 - Screen w/stand - portable
- 1 - Slide Projector - Airequipt
- 3 - Record Players - Stereo
- 3 - Tape Recorders - Califone, Concord Stereo, Wollensak
- 2 - PA System and Record Player
- 3 - Overhead Projectors - 1 Portascribe, 2 Delineascope

#### G. Library Resources:

1. There are approximately 1000 volumes in the John Smith Library directly supporting the history program.

2. The expanded program in history would probably require an additional 1000 volumes to be purchased as the junior and senior courses develop as follows:

1969-70: 560 volumes for a total cost of c. \$5600

1970-71: 420 volumes for a total cost of c. \$4200

1971-72: 420 volumes for a total cost of c. \$4200

#### H. Cost:

|                     | <u>1969-70</u> | <u>1970-71</u> | <u>1971-72</u> |
|---------------------|----------------|----------------|----------------|
| Salaries:           |                |                |                |
| Current Staff:      | \$26,460       | \$28,000       | \$29,500       |
| Additional Staff:   | \$ 9,400       | \$29,500       | \$33,000       |
| Total faculty cost: | \$35,860       | \$57,500       | \$62,500       |
| Library:            | \$ 5,600       | \$ 4,200       | \$ 4,200       |

Revenue: A large percentage of the revenue of Christopher Newport College comes from the State, the officials of which have approved the expansion of the program of the college and have guaranteed financial support for this expansion.

In addition to moneys coming from the State, the college derives varying amounts of income from the following sources:

Student fees, gifts and donations, veterans handling charges, library fines, transcript fees, telephone commissions, application fees, late filing fees, diploma fees, testing fees, examination fees, breakage fees, insurance recoveries, parking fines and fees, and profits from bookstore.

#### IV. Proposed Program for a Major in Psychology

##### A. Proposed Classification:

1. It is proposed to set up a major in psychology at Christopher Newport College of the College of William and Mary.
2. The degree in psychology would be an undergraduate degree (B.A. or B.S.).
3. The extended expansion on the third-year level (junior courses) would take place in the academic year 1969-70; the implementation of senior courses would occur in the academic year 1970-71.

The first bachelor's degrees in psychology would be bestowed in June, 1971.

##### B. Program Justification:

1. The aims of the psychology program are to acquaint students with the body of knowledge in psychology and how to apply this knowledge usefully and responsibly. The department is organized to enable the major student to survey the entire field of psychology and to learn how to use the tools of psychological research.
2. The need for psychologists at the local, state, and national levels is crucial. Institutions, hospitals, public schools, correctional schools, and special schools are seriously understaffed with qualified personnel, and existing programs cannot meet the present need, much less the needs of an expanding population.

##### C. Program Expansion:

###### 1. Additional Courses:

Psychology 203. Psychology of Adjustment. Three credits. A study of adjustment problems of normal people. The various behavior mechanisms are studied in detail. Minor personality disturbances are considered. Prerequisite: Psychology 201.

Psychology 303. Industrial Psychology. Three credits. A study of how the psychologist functions in such areas as recruitment, selection, training, placement, evaluation, management, supervision, human relations, and human engineering. The



knowledge and methods currently available about human behavior in such situations will also be considered. Prerequisite: Psychology 201.

Psychology 304. Social Psychology. Three credits. A study of the individual in group situations. The interaction of the individual and his environment in a great variety of circumstances is analyzed. Emphasis is placed on the psychology of prejudice, attitudes, and groups. Prerequisite: Psychology 201.

Psychology 306. Introduction to Tests and Measurements. Three credits. Theory and history of the most widely used tests of achievement, of personality, and of intelligence. Prerequisite: Psychology 201.

Psychology 308. Child Psychology. Three credits. The biological, social, and emotional factors influencing the normal growth and development of the child from birth to adolescence. The emergence of personality is emphasized. Prerequisite: Psychology 201.

Psychology 309. Psychology of Adolescence. Three credits. The development of the child from pre-adolescence through senescence. Theories of counseling and guidance in the adolescent years in light of experimental data are presented. Prerequisite: Psychology 201; Psychology 307 or Psychology 308.

Psychology 310. History of Psychology. Three credits. From Aristotle to the present with special emphasis on the 19th and 20th centuries. Prerequisite: Psychology 201.

Psychology 311. Psychology of the Exceptional Child. Three credits. The psychological development of children with physical, emotional, educational, social, and intellectual deviations. Intellectual and personality development, evaluation, and communication problems are considered. Prerequisite: Psychology 201, Psychology 307 or Psychology 308.

Psychology 313. Human Relations in Organizations. Three credits. This course provides an opportunity for skill development in human relations through the utilization of such techniques as the leaderless group discussion and role playing. No prerequisite.

Psychology 404. Physiological Psychology. Three credits. A general information course designed to account for the various behavioral phenomena in terms of known and inferred physiological mechanisms. Prerequisite: Psychology 201.

Psychology 405. Psychology of Motivation. Three credits. A study of motivation of behavior, emphasizing such concepts as drive, need, incentive, frustration, and anxiety. The relationships of motivation to learning and perception will be considered with appropriate theoretical consideration and experimental demonstrations. Prerequisite: Psychology 201.

Psychology 406. Psychology of Perception. Three credits. The sensory and perceptual processes of vision, hearing, smell, taste, and the skin senses. Psychophysical and scaling methods are considered. Prerequisite: Psychology 201.



Psychology 407. Introduction to Personality. Three credits. Hereditary and environmental sources of individual differences in personality dynamics. The various interpretations of personality development are examined. Prerequisite: Psychology 201.

Psychology 408. Psychology of Learning. Three credits. A study of the principles of human and animal learning, retention, and problem-solving. Methods of investigation and recent theories of learning are considered. Prerequisite: Psychology 201.

Psychology 409. Senior Seminar. Two credits. Topical seminars to cover a variety of areas: perception, animal learning, human learning, language and thought, psychological testing, and great psychologists. Senior concentrators are required to take two seminars. These seminars are limited to senior concentrators.

#### D. Students

1. Analyzing the percentage of returnees that continue in psychology one can expect the following numbers in the listed years:

|         |   |                                   |
|---------|---|-----------------------------------|
| 1969-70 | - | 20 students (juniors only)        |
| 1970-71 | - | 45 students (juniors and seniors) |
| 1971-72 | - | 60 students (juniors and seniors) |

#### E. Faculty:

1. Current faculty available for the program:

Ruth Mulliken, Ph.D., Associate Professor  
 Joanne Squires, Ph.D., Associate Professor  
 JoEllen Sutton, M.A., Instructor  
 James Windsor, M.S., Assistant Professor

Since Dr. Mulliken is also the college counselor, she has a present workload of 5 hours and an anticipated work-load of 6 hours. Mr. Windsor, also dean of students, has a one-fourth load of 3 hours with the same workload anticipated. Both Dr. Squires and Mrs. Sutton have a full load of at least 12 hours, and both are expected to continue this load.

2. Additional faculty needed:

|  |         |
|--|---------|
| One assistant professor (with at least the M.A. or M.S.) | 1969-70 |
| One associate professor (with the Ph.D.)                 | 1970-71 |

3. The size and scope of this program would suggest the need for at least one person to have attained the rank of full professor by 1970-71.

#### F. Physical Plant Facilities:

1. The existing facilities available for the psychology program include four offices, five classrooms, and a make-shift research area. The only item of major equipment currently on hand is a desk calculator.

2. The equipment listed in the business program is also available to members of the Psychology Department. This includes



- 1 - Autotutor - Mark II
- 1 - Camera and Flash attachment - Minolta
- 1 - Film Strip Projector - Bell and Howell w/3 slide magazines
- 2 - Movie Projectors, 16 mm. - Bell and Howell, Sound and Silent, take-up reel
- 1 - Opaque Projector
- 2 - PA Amplifier FM a 35 w/turntable - w/microphone and stand, 2 speakers
- 1 - Screen w/stand - portable
- 1 - Slide Projector - Airequipt
- 3 - Record Players - Stereo
- 3 - Tape Recorders - Califone, Concord Stereo, Wollensak
- 2 - PA System and Record Player
- 3 - Overhead Projectors - 1 Portascribe, 2 Delineascope

3. Estimates of additional facilities have already been made in detail and incorporated into the plans for the new classroom building, with an estimated cost of \$423,000. In addition to the equipment included in the plans for the new building, there is further need for several calculators and for equipment for the experimental laboratory and student research projects, which are estimated to cost \$3500 initially and \$1500 over the following three years.

#### G. Library Resources:

1. At the present time, there are approximately 700 volumes in psychology in the Captain John Smith Library; in addition, there are 12 psychological journals being regularly subscribed to and 10 back issues of current psychological journals. (A request has been submitted under Title 6 for \$13,000 to complete the sets).

2. It is estimated that the following additions in books should be made over the three-year period:

1969-70: 400 volumes at a total cost of c. \$8000

1970-71: 100 volumes at a total cost of c. \$2000

1971-72: 100 volumes at a total cost of c. \$2000

Fifteen additional journal subscriptions are needed immediately (a total of \$150 each year).

#### H. Cost:

|                                 | <u>1969-70</u> | <u>1970-71</u> | <u>1971-72</u> |
|---------------------------------|----------------|----------------|----------------|
| 1. <u>Salaries:</u>             |                |                |                |
| Current Staff:                  | \$33,000       | \$34,650       | \$36,500       |
| Additional Staff:               | \$ 8,900       | \$19,700       | \$22,000       |
| Total faculty cost:             | \$41,900       | \$41,350       | \$58,500       |
| 2. <u>Library:</u>              | \$ 8,000       | \$ 2,000       | \$ 2,000       |
| 3. <u>Laboratory equipment:</u> | \$ 3,500       | \$ 1,500       | \$ 1,500       |

Revenue: A large percentage of the revenue of Christopher Newport College comes from the State, the officials of which have approved the expansion of the program of the college and have guaranteed financial support for this expansion.

In addition to moneys coming from the State, the college derives varying amounts of income from the following sources:

Student fees, gifts and donations, veterans handling charges, library fines, transcript fees, telephone commissions, application fees, late filing fees, diploma fees, testing fees, examination fees, breakage fees, insurance recoveries, parking fines and fees, and profits from bookstore.

In addition, requests for federal funds under Title 6 are being submitted for \$19,199.38 for Library and equipment in addition to that specified in this document.



## ADDENDUM

The figures for majors have been estimated as follows:

We have used as a base figure the number of present sophomores who have indicated that they plan to major in the area specified. We then estimated an approximate increase of 10% in the juniors expected for 1970, and added this figure to the base number who will be seniors in 1970. The increase for 1971 is estimated at 15%. We have rounded off these figures in a cautious anticipation of enrollment increases caused by those people in the community who have indicated that they plan to finish delayed degree work at Christopher Newport College.