

## WRIGHT STATE UNIVERSITY LIBRARIES

### Collection Development Policy Statement

**SUBJECT:** Physics

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#### UNIVERSITY PROGRAMS

The Department of Physics (<http://www.wright.edu/academics/physics/>) offers programs of study on both the undergraduate and the graduate level.

In the programs leading to the Bachelor of Science (B.S.) degree in Physics, students are encouraged to pursue interdisciplinary study. To this end, the department offers several different curricula in cooperation with other departments in the College of Science and Mathematics and also with other colleges of the university. There are three formal physics degree options: the Physics/Geophysics Option (in cooperation with the Department of Earth and Environmental Sciences), the Physics/Computing Option, and the Physics/Biology Option (in cooperation with the Department of Biological Sciences). In addition to these, the Physics Department offers a Physics Honors Program and a Dual Major program in Physics and Mathematics (in cooperation with the Department of Mathematics and Statistics).

The Physics Education Program leads to the Bachelor of Arts (B.A.) in Earth Sciences/Physics Education, Life Sciences/Physics Education, or Physics Education for students who wish to be licensed to teach in Ohio public schools. After completing the B.A. degree students can enroll in the College of Education and Human Services' Professional Educators Program.

The Department of Physics also participates in the Engineering Physics Program with the Department of Electrical Engineering. Students following this program earn the B.S. in Engineering Physics from the College of Engineering and Computer Science.

Wright State University does not have an Astronomy program, but several courses in the Physics Department have an Astronomy focus.

At the graduate level, the Department of Physics has two Master of Science (M.S.) programs available: the M.S. and the M.S. in Teaching. The M.S. curriculum requires research and a thesis. It is designed to prepare students for careers in government or industry laboratories or for further graduate study. The program includes a medical physics program with an emphasis on medical imaging. Research combining physics with other disciplines, such as exploration geophysics and engineering physics is also available. The M.S. in Teaching program is designed to assist current and future high school Physics teachers in developing their teaching specialty.

Physics and Physics Engineering courses have been offered at Wright State University since its inception. The Physics Education Program has been very active since the mid 1990's. The

University Libraries have been committed to supporting instruction, study and research in these areas by collecting for the various programs offered and for the specific research interests of the faculty.

## CLASSIFICATION OF LIBRARY MATERIALS

### Library of Congress classification

QB	Astronomy
QC	Physics
QD	Physical Chemistry

### Superintendent of Documents classification

C13	National Institute of Standards and Technology
C51	National Technical Information Service
C55	National Oceanic and Atmospheric Administration
E	Energy
NS	National Science Foundation
Y3.N88	Nuclear Regulatory Commission

## SCOPE OF COLLECTION

### Dates covered: intellectual content

Materials presenting recent developments in Physics comprise the greater part of purchases. However, materials dealing with the history of Physics are collected selectively.

### Dates covered: publication dates

Most materials purchased are current imprints. Occasionally earlier imprints are collected or retrospective purchases are made for a monographic series or a journal backfile.

### Geographic coverage

Physics literature is international in scope and publication. While many items collected reflect North American research, there are no geographic restrictions placed on the country of publication or of research.

### Language

English-language materials are collected. This includes translations into English. For specific research interests, materials may be collected in other languages, especially if their content is presented in table or graph format

### Types of materials

Monographic titles and serials are collected. Subscriptions to databases include those with citations to articles and those with full text. A list of databases relevant to Physics is available at <http://www.libraries.wright.edu/quicklinks/databases/subjects.php?id=36>

### Format

Most items collected are in print format. Microforms, videos, digital videodiscs (DVDs) and other audio-visual and electronic materials are also collected as needed. Access is provided to selected Internet resources through the Physics Research Guide (<http://www.libraries.wright.edu/services/researchguides/phy/>) on the University Libraries web site.

**Exclusions**

Laboratory manuals, workbooks, and introductory-level textbooks are generally not collected.

## **LOCATION OF MATERIALS**

Most of the materials pertinent to the field of Physics are housed in the Paul Laurence Dunbar Library. However, certain subfields of Physics (such as Magnetic Resonance Imaging and Biophysics) are shared with subfields of Medicine and materials for these areas of interest are located in the Fordham Health Sciences Library. Older volumes of journals and some older books are kept at the Southwest Ohio Regional Depository. Many of the most frequently-used physics journals are available electronically through the Libraries' participation in the OhioLINK Electronic Journal Center and other electronic journal collections.

## **INTERDISCIPLINARY RELATIONSHIPS**

The selection of materials for Physics overlaps significantly with the selection for Chemistry items and to a lesser extent with selection for other areas such as Earth and Environmental Sciences, Materials Science, Engineering, and Health Sciences.

## **LOCAL AND REGIONAL RESOURCES**

### **Local and regional collections**

Library collections at Wright Patterson Air Force Base, especially the Air Force Institute of Technology (AFIT) Library which also houses the research materials formerly in the Air Force Research Laboratory (AFRL), support Physics and Engineering research. The libraries of the participating institutions of the Dayton Area Graduate Studies Institute (DAGSI) – AFIT, WSU, and the University of Dayton – offer their resources to each other's researchers, faculty, and students. Other regional libraries with strong collections in Physics are at Ohio State University and the University of Cincinnati.

### **Cooperative loan arrangements**

OhioLINK provides WSU Libraries users with access to materials collected by most of the other academic libraries in Ohio. These libraries support several doctoral programs in Physics as well as many M.S. and B.S. and B.A. programs in Physics.

OhioLINK membership also provides Wright State with membership in the Center for Research Libraries, which enables faculty, staff, and students to obtain Center materials through interlibrary loan.

### **Cooperative acquisitions projects**

There are no current cooperative acquisitions projects. However, the Physical Sciences Interest Group of OhioLINK provides a forum for members to discuss and evaluate potential purchases by OhioLINK or by individual institutions of both electronic and print format materials of interest to the study of Physics