Russian Studies
Dr. Mary Louise Loe, Minor Adviser
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E-mail: loeml@jmu.edu

This minor offers students a broad, interdisciplinary perspective on Russian culture, history, political institutions, economy and geography. This program deepens the students' understanding and knowledge of the Russian and non-Russian peoples of the former Soviet Union, and prepares them for careers in teaching, government and international business. The minimum requirement for a minor in Russian studies is 18 hours. Students should take courses in at least three different disciplines from the following list:

**Required Courses**
- ECON 301. Economies in Transition
- HIST 385. Russia to 1855
- HIST 386. Russia Since 1855
- HIST 475. Modern Russia
- POSC 337. Russian Political System
- POSC 338. Russian Foreign Policy
- POSC 339. Politics of Communist and Post-Communist Systems
- RUS 266/GHUM 200. Russian Literature in Translation/Great Works
- RUS 300. Russian Conversation and Composition
- RUS 308. Introduction to Russian Civilization
- RUS 315. Russian Phonetics
- RUS 320. Advanced Russian Grammar
- RUS 405. Russian Literature of the 19th Century
- RUS 426. Russian Literature of the 20th Century

Students may include one course from the following list:
- ECON 490. Special Studies in Economics
- FL 490. Special Studies in Foreign Languages (Russian)
- GEOG 490. Senior Project II
- HIST 399. Special Studies in History
- POSC 490. Senior Tutorial in Political Science

With the approval of the adviser to the program, six to eight hours of Russian language may be included in the minor.

Telecommunications
Dr. Malcolm Lane, Minor Adviser
Phone: (540) 568-2772  
E-mail: lanemg@jmu.edu

The interdisciplinary minor in telecommunications is designed to augment the student’s major program with a package of courses that will prepare the graduate to obtain a position as a telecommunication/network professional and fill a societal need in one of the fastest growing areas of technology. The program is developed as a minor principally for three major programs: computer science; integrated science and technology; and computer information systems. However, the program is open to any undergraduate with an interest in telecommunications and some computer background.

The telecommunications minor will instill knowledge of the following:
- Telecommunication terminologies, standards, policies and procedures.
- Basics of data transmission, digital signal processes and signaling hierarchies.
- Architectures, communications protocols, and components of LANs, WANs and internetworks.
- The TCP/IP and ATM protocol suites.
- Switching, routing and traffic management in inter-networked environments.
- Voice, video and data transmission over IP and ATM.
- Application development for the Internet.
- Distributed object systems programming and management.

The requirements for the minor are 18 credits shown below. Students are encouraged to check prerequisites. At most four courses can be used to satisfy both the telecommunications minor and a student’s major requirements.

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>CIS/CS 320</td>
<td>Telecommunications and Information Processing</td>
<td>3</td>
</tr>
<tr>
<td>SMAD 356</td>
<td>Telecommunications Policy and Regulation</td>
<td>3</td>
</tr>
<tr>
<td>CS 460</td>
<td>Local Area Networks</td>
<td>3</td>
</tr>
<tr>
<td>CS 461</td>
<td>Internetworking</td>
<td>3</td>
</tr>
<tr>
<td>CS 462</td>
<td>Network Applications Development</td>
<td>3</td>
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<tr>
<td>Choose one of the following</td>
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<td>18-19</td>
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</tbody>
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Substance Abuse Intervention
Jeanne Martin-McAllister, Minor Adviser
Phone: 568-7097  
E-mail: martinjm@jmu.edu

This 22 credit hour interdisciplinary substance abuse intervention minor prepares the student to understand the impacting forces on the abusing individual and help the individual seek aid as appropriate. The SAI minor also prepares the student to assist communities in designing science-based prevention programs. Course work in the SAI minor can lead to certification as a Certified Prevention Professional, Alcohol, Tobacco and Other Drug (CPP-ATOD).

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HTH 378</td>
<td>The Use and Effects of Drugs</td>
<td>3</td>
</tr>
<tr>
<td>HTH 407</td>
<td>Health Education Facilitation/Synthesis</td>
<td>2</td>
</tr>
<tr>
<td>HTH 451</td>
<td>Strategies for Health Change</td>
<td>3</td>
</tr>
<tr>
<td>HTH 458</td>
<td>Health Program Planning and Evaluation</td>
<td>3</td>
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<tr>
<td>HTH 488</td>
<td>Substance Abuse Prevention Basics</td>
<td>1</td>
</tr>
<tr>
<td>SOWK 317</td>
<td>Skills for Generalist Social Work</td>
<td>3</td>
</tr>
<tr>
<td>Choose one of the following</td>
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<td>3</td>
</tr>
<tr>
<td>PSYC 285</td>
<td>Drugs and Behavior</td>
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</tr>
<tr>
<td>PSYC 308</td>
<td>Health Psychology</td>
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</tbody>
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1 Prerequisite is PSYC 101 and junior status.