SPRING NSSP-CTSP and GNSPI Courses
Recommended and/or Supported

Notes:
1. The online synchronous classes are for remote NM Consortium students only. UNM-main students please sign up for the parent Hybrid class.
2. ENG 195 and 495 are crosslist classes of corresponding sections of LAIS 309.
3. Social Media Exploratory Data Analytics and Data Visualization MGMT and LAIS are online. Sign up for either. NSSP-CTSP including NM Consortium students will then arrange a weekly synchronous session with the instructor.
4. Technical Analysis and Operation in Intelligence Services is offered as ENG 195 or LAIS 309 as Hybrid will be taught by Doug Wise a retired senior official at CIA and DIA.
5. Technical Analysis and Operation in Intelligence Services will satisfy the LAIS 340 requirement for the NSSA Certificate and the GNS BLA requirement. LAIS 340 will be offered again Fall 2019.
6. WMD Non-proliferation is cross listed in POLS and Nuclear Engineering.
7. Students in the NSSA Capstone Course should register for 2 credits and use either LAIS 409.001 or 409.004.
8. Signing up for two different LAIS 309 sections may cause a glich and if so, you need to ask your instructor to override this allowing you to sign up for two sections of the same class.

Course A. Technical Analysis and Operation in Intelligence Services. This course provides an understanding of the role technology plays in the Intelligence Community, the structure/roles/missions of each of the agencies, how technology is applied to collect and analyze intelligence to provide a “decision advantage” to U.S. policy-makers.

<table>
<thead>
<tr>
<th>T: TechAnalysisOprt1nIntsSvc - 48764 - LAIS 309 - 006</th>
</tr>
</thead>
</table>

CLASS INFORMATION: Required online meeting times. **Online Synchronous Course** Detail: online.unm.edu

*************** COURSE DESCRIPTION: The content of this course varies by semester. It highlights topics of specialized interest in areas of multidisciplinary, interdisciplinary, and transdisciplinary research.

Associated Term: Spring 2019
Registration Dates: Oct 29, 2018 to Jan 25, 2019
Attributes: Albuquerque/Main, EA Dual Credit, Online, University College, Upper Program Level

Online & ITV Campus
Topics Schedule Type
Online Instructional Method
3.000 Credits
View Catalog Entry

**Scheduled Meeting Times**

<table>
<thead>
<tr>
<th>Type</th>
<th>Time</th>
<th>Days</th>
<th>Where</th>
<th>Date Range</th>
<th>Schedule Type</th>
<th>Instructors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arranged Online Meeting</td>
<td>5:15 pm - 7:00 pm</td>
<td>R</td>
<td>Online Synchronous 1</td>
<td>Jan 14, 2019 - May 11, 2019</td>
<td>Topics</td>
<td>Frank L Gilfeather (P)</td>
</tr>
<tr>
<td>Arranged</td>
<td>TBA</td>
<td></td>
<td>Online 1</td>
<td>Jan 14, 2019 - May 11, 2019</td>
<td>Topics</td>
<td>Frank L Gilfeather (P)</td>
</tr>
</tbody>
</table>
CLASS INFORMATION: Hybrid Course 1.5 hrs taken online. http://online.unm.edu

**COURSE DESCRIPTION:** Selected topics in interdisciplinary engineering or computer science at an introductory level.

**Associated Term:** Spring 2019

**Registration Dates:** Oct 29, 2018 to Jan 25, 2019

**Attributes:** Albuquerque/Main, Albuquerque Dual Credit, School of Engineering

Albuquerque/Main Campus
Lecture Schedule Type
Instructional TV Parent Instructional Method
3.000 Credits

**View Catalog Entry**

### Scheduled Meeting Times

<table>
<thead>
<tr>
<th>Type</th>
<th>Time</th>
<th>Days</th>
<th>Where</th>
<th>Date Range</th>
<th>Schedule Type</th>
<th>Instructors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>5:15 pm - 7:00 pm</td>
<td>R</td>
<td>Electrical &amp; Comp Engineering 210</td>
<td>Jan 14, 2019 - May 11, 2019</td>
<td>Lecture</td>
<td>Frank L Gilfeather (P)</td>
</tr>
</tbody>
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CLASS INFORMATION: Hybrid Course 1.5 hrs taken online. http://online.unm.edu

**COURSE DESCRIPTION:** The content of this course varies by semester. It highlights topics of specialized interest in areas of multidisciplinary, interdisciplinary, and transdisciplinary research.

**Associated Term:** Spring 2019

**Registration Dates:** Oct 29, 2018 to Jan 25, 2019

**Attributes:** Albuquerque/Main, Albuquerque Dual Credit, University College, Upper Program Level

Albuquerque/Main Campus
Topics Schedule Type
Instructional TV Parent Instructional Method
3.000 Credits

**View Catalog Entry**

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</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>5:15 pm - 7:00 pm</td>
<td>R</td>
<td>Electrical &amp; Comp Engineering 210</td>
<td>Jan 14, 2019 - May 11, 2019</td>
<td>Topics</td>
<td>Frank L Gilfeather (P)</td>
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<td>Arranged</td>
<td>TBA</td>
<td></td>
<td>Online 1</td>
<td>Jan 14, 2019 - May 11, 2019</td>
<td>Topics</td>
<td>Frank L Gilfeather (P)</td>
</tr>
</tbody>
</table>
**Course B. Introduction to Cyber and Data Security.** *This course includes an introduction to cybersecurity concepts needed to understand policy issues affecting personal and national security. The course is an introduction to concepts of cyber and data security including study of recent advanced threats and counter-methods.*

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**T: Intro to Cyber Data Sec - 48765 - LAIS 309 - 009**

**CLASS INFORMATION:** Hybrid Course 1.5 hrs taken online. [http://online.unm.edu](http://online.unm.edu)

**COURSE DESCRIPTION:** The content of this course varies by semester. It highlights topics of specialized interest in areas of multidisciplinary, interdisciplinary, and transdisciplinary research.

**Associated Term:** Spring 2019

**Registration Dates:** Oct 29, 2018 to Jan 25, 2019

**Attributes:** Albuquerque/Main, Albuquerque Dual Credit, University College, Upper Program Level

Albuquerque/Main Campus

Topics Schedule Type
Instructional TV Parent Instructional Method
3.000 Credits

[View Catalog Entry](http://online.unm.edu)

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**Scheduled Meeting Times**

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<th>Where</th>
<th>Date Range</th>
<th>Schedule Type</th>
<th>Instructors</th>
</tr>
</thead>
</table>
| Class              | 9:30 am - 10:45 am| R    | Woodward Lecture Hall 149 | Jan 14, 2019 - May 11, 2019 | Topics | Christopher Charles
| Arranged TBA       | TBA               |      | Online 1            | Jan 14, 2019 - May 11, 2019 | Topics | Christopher Charles

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**T: Intro to Cyber Data Sec - 48771 - LAIS 309 - 010**

**CLASS INFORMATION:** Required online meeting times. **Online Synchronous Course** Detail: online.unm.edu

**COURSE DESCRIPTION:** The content of this course varies by semester. It highlights topics of specialized interest in areas of multidisciplinary, interdisciplinary, and transdisciplinary research.

**Associated Term:** Spring 2019

**Registration Dates:** Oct 29, 2018 to Jan 25, 2019

**Attributes:** Albuquerque/Main, EA Dual Credit, Online, University College, Upper Program Level

Online & ITV Campus

Topics Schedule Type
Online Instructional Method
3.000 Credits

[View Catalog Entry](http://online.unm.edu)

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<th>Schedule Type</th>
<th>Instructors</th>
</tr>
</thead>
</table>
| Arranged Online Meeting | 9:30 am - 10:45 am | R    | Online Synchronous 1 | Jan 14, 2019 - May 11, 2019 | Topics | Christopher Charles
| Arranged TBA       | TBA               |      | Online 1            | Jan 14, 2019 - May 11, 2019 | Topics | Christopher Charles

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Course C: Social Media Exploratory Data Analytics and Data Visualization. The goal of Social Media Exploratory Data Analytics is to gather and analyze large volumes of data on social media to discover business and management heuristics. No knowledge of programming, math, or statistics is assumed. In this class, you will learn how to use software (Excel and the R statistical package), to automate: (a) the retrieval of social media data; (b) the pre-processing of this data; (c) the statistical, computational, and machine-learning modeling of this data; and (d) the visualization of this data.
**Course D: Capstone Project Course for NSSA Certificate.** *This course is required for the National Security and Strategic Analysis (NSSA) Certificate.* Students will analyze elements in several short articles focusing understanding their structure. Students will write a research paper describing situational question and then present a briefing on their question.

**Individual Study - 38896 - LAIS 409 - 001**

CLASS INFORMATION: Capstone Project for the NSSA Certificate. ************* COURSE DESCRIPTION: Directed study of topics not covered in regular courses. Specific arrangements must be made with a member of the LAIS faculty responsible for supervising the work. A proposed plan of study is normally made at least one semester in advance.

**Associated Term:** Spring 2019

**Registration Dates:** Oct 29, 2018 to Jan 25, 2019

**Attributes:** Albuquerque/Main, Albuquerque Dual Credit, University College, Upper Program Level

Albuquerque/Main Campus

Independent Study Schedule Type

1.000 TO 3.000 Credits

**View Catalog Entry**

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<tr>
<th>Type</th>
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<th>Date Range</th>
<th>Schedule Type</th>
<th>Instructors</th>
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<tbody>
<tr>
<td>Arranged</td>
<td>TBA</td>
<td>Jan 14, 2019 - May 11, 2019</td>
<td>Independent Study</td>
<td>Alina Rosa Bloom (P)</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTION: Directed study of topics not covered in regular courses. Specific arrangements must be made with a member of the LAIS faculty responsible for supervising the work. A proposed plan of study is normally made at least one semester in advance.

Associated Term: Spring 2019
Registration Dates: Oct 29, 2018 to Jan 25, 2019
Attributes: Albuquerque/Main, Albuquerque Dual Credit, University College, Upper Program Level

Albuquerque/Main Campus
Independent Study Schedule Type
2.000 Credits
View Catalog Entry

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<tr>
<th>Type</th>
<th>Time</th>
<th>Days</th>
<th>Where</th>
<th>Date Range</th>
<th>Schedule Type</th>
<th>Instructors</th>
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<tbody>
<tr>
<td>Arranged</td>
<td>TBA</td>
<td>TBA</td>
<td>Jan 14, 2019 - May 11, 2019</td>
<td>Independent Study</td>
<td>Frank L Gilfeather (P), Kenneth D Carpenter</td>
<td></td>
</tr>
</tbody>
</table>

Course E: WMD and Non-Proliferation. This course presents an interdisciplinary introduction to the nonproliferation regime, the US and international agencies responsible for development and implementation of nonproliferation policies, and the social and political dynamics underlying the development of weapons of mass destruction (WMD) in selected countries. The course will review the current nonproliferation treaties and discuss the technological approaches available for verification and implementation of these policies and treaties. The course will examine conceptual understandings of the relationship between technology and policy; measures of conflict prevention and management; and the question of terrorist use of WMD and related prevention strategies. No technical knowledge of WMDs is required but upper class standing or graduate status is suggested.

Sel T: WMD & Non Proliferatn - 39796 - NE 499 - 002

COURSE DESCRIPTION: A course which permits various faculty members to present detailed examinations of developing sciences and technologies in a classroom setting. Restriction: admitted to School of Engineering. {Offered upon demand}

Associated Term: Spring 2019
Registration Dates: Oct 29, 2018 to Jan 25, 2019
Attributes: Albuquerque/Main, Albuquerque Dual Credit, School of Engineering, Upper Program Level

Albuquerque/Main Campus
Topics Schedule Type
3.000 Credits
View Catalog Entry

<table>
<thead>
<tr>
<th>Type</th>
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<th>Where</th>
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<th>Schedule Type</th>
<th>Instructors</th>
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<tbody>
<tr>
<td>Class</td>
<td>4:30 pm - 5:45 pm</td>
<td>MW</td>
<td>Centennial Engineering Center 1032</td>
<td>Jan 14, 2019 - May 11, 2019</td>
<td>Topics</td>
<td>Farajollah Ghanbari (P)</td>
</tr>
</tbody>
</table>
Course F: Global Trends and National Security. Public policy, namely national security policies, are and increasingly will be affected by global geopolitical changes as well as national policymaking institutions. Because policy decisions focus on human populations, a significant portion of the class will focus upon the interplay between demography and national security. As such, we examine the demographic divide between rich and poor nations, including youth bulges and aging populations; migration, including internally displaced persons, and
urbanization, and how population affects climate change and food security. Students will use demographic and economic data from different countries and regions to assess differences in population composition and to consider their implications for security and stability.

Special GNSPI Supported Graduate Courses Spring 2019

These special graduate Hybrid courses will count for the pending master’s degree in Global and National Security Policy being approved for UNM. Consult the GNSPI website for more information.

First Half of the Semester
1. POLS 512 Introduction to Global and National Security (3 credits), Rob Leland (NREL)
2. ECE 595 sections 003 and 004 Cybersecurity and National Security and Intro to Directed Energy (6 credits), Chris Lamb (Sandia) and Edl Schamiloglu

Second Half of the Semester:
1. BIOM 505 sections 010 and 011 Global Health and National Security (6 credits), Larry Gernon and Vic Barbiero
2. MGMT 594 section 6 and section 7 U.S.-Latin America Strategic Partnership: A Cultural and National Security Perspective (6 credits), Raul Gouvea and Louis Ollivier
3. POLS 512 sections 003 and 005 Issues in American National Security and American National Security & Process (6 credits), Mark Peceny and Emile Nakhleh
4. Nuclear Engineering (catalog number to follow soon) Global Nuclear Security and Policy (6 credits), Cassiano and Adam Hecht