LEGAL ANALYTICS & INNOVATION CERTIFICATE
STUDENT INFORMATION PACKET

Legal Analytics & Innovation Initiative
Legal Analytics & Innovation Certificate Packet

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Introduction
Legal scholars, law firms, and legal technology entrepreneurs have begun to exploit advances in artificial intelligence, machine learning, natural language processing, programming, and high-performance computing to process large data sets and glean new insights from unstructured data, such as court documents, contracts, and other legal material. The Legal Analytics & Innovation Certificate (“Certificate”) program aims to develop in GSU law students sufficient knowledge of and experience with analytics tools in order to leverage emerging technologies in their law practice as informed consumers and competent technology partners. A strong market exists for lawyers who are familiar with and experienced in the tools of legal analytics, using computational and statistical modeling, analysis, and visualization of various kinds of legal data to accomplish both descriptive and predictive goals.

Contact Information
For additional information, please visit our website (law.gsu.edu/laii/), or contact the Legal Analytics & Innovation Initiative’s Executive Director, Ben Chapman, at bchapman8@gsu.edu or at 404-413-9274.

Core competencies
The Certificate is designed to provide students with a working knowledge of data management, data processing, data visualization, prediction, and modern techniques to assess, model, and analyze real-world problems involving legal data. The curriculum comprises 12 credit hours from five required courses and a minimum of nine credits from a designated list of electives. Students will participate in substantial experiential components and will complete a major writing assignment to satisfy the COL’s writing requirement.

Eligibility
Students in good academic standing after their first full year (31 hours) of law study are eligible to participate in the certificate program. Continued participation is dependent on remaining in good academic standing with the College of Law.

Application Process
To apply, submit the attached Declaration of Interest form to the Executive Director of the Legal Analytics & Innovation Initiative. Interested students may apply as early as the spring semester of the first year of the full-time program or spring semester of the second year of the part-time program. Students may also apply anytime thereafter, assuming there is enough time to satisfy the certificate requirements before graduation.

The declaration of interest form is not binding. Students may opt out of the program at any time.

Advisement
Once a student has formally declared his or her interest in pursuing the Certificate, a faculty advisor will be assigned. Certificate students are encouraged to take advantage of faculty advisement in selecting courses and discussing career prospects. Of course, students are welcome to meet with other College of Law faculty and are not limited to the assigned faculty advisor.
Degree Requirements

Required Courses (12 credit hours):

- LAW 7675/MSA 8350 Legal Analytics (3 credits)
- LAW 7676E/MSA____ Applied Legal Analytics Lab (3 credits, experiential)

*Required for students without a strong math and programming background:*
- MATH 7100- Basic Math for Analytics (1.5 credits)
- CSC 2032- Programming Foundations for Analytics (1.5 credits)
- MATH 7110 -Mathematical Foundations for Analytics (3 credits)

*JD students with prior mathematics/computer programming background:*
- Any 2 MSA-prefix courses, with a strong emphasis on the relevance of MSA 8770- Text Mining and MSA 8600- Deep Learning Analytics

**NOTE:** The Executive Director, in consultation with the LAII Faculty Director, will determine whether a Certificate student is required to take the foundational math and programming courses. That decision is final.

Elective Courses (choice of at least 9 credit hours)
Students will select their 9 hours of elective courses from the following list. Students *must* take at least 6 credit hours from the Tier 1 list and can take up to 9 credit hours. Students *may* take up to 3 credit hours from the Tier 2 list, which addresses practice areas with robust incorporation of legal analytics methodologies.

**Tier 1: Electives (choose at least 6 credit hours)**
- LAW 7139- e-Discovery
- LAW 7050- Advanced Legal Research
- LAW 7137- Cyberlaw
- LAW 7631- Contract Drafting & Risk Analysis
- LAW 7138- Computers and the Law Seminar
- LAW 7136- Complex Litigation
- LAW 7336- Fundamentals of Law Practice
- LAW 7355- Law and Emerging Technologies
- LAW 7632- The Role of In-House Counsel
- LAW- Legal Tech. Competency & Operations
- Other approved graduate courses, such as FI 8460 – Introduction to FinTech

**Tier 2: Electives (choose up to 3 credit hours)**
- LAW 7270- Intellectual Property
- LAW 7395- Mergers and Acquisitions
- LAW 7417- Patent Law
- LAW 7416- Patent Drafting and Prosecution
- LAW 7435- Real Estate Transactions
Legal analytics is a new, but growing, field. The list of eligible electives for students will be updated as new courses are developed or existing courses are dropped or changed and the LAII reserves the right to change the list of courses if required.

Writing requirement
Students must complete a substantial writing project on a Legal Analytics & Innovation topic, which may also be used to satisfy the College of Law’s writing requirement. Written projects for Moot Court or writing competitions DO NOT satisfy the certificate writing requirement unless they otherwise meet the College of Law writing requirement. The writing project must be pre-approved by your faculty advisor and the faculty member who will supervise the project (if different). For courses and independent research for faculty members teaching courses not listed above, you should coordinate in advance with your certificate faculty advisor to ensure that the project will meet the writing requirement for this program.

Extracurricular activities
Students are encouraged to participate in legal analytics extracurricular activities such as workshops and boot camp training sessions hosted at the College of Law or Robinson College of Business, participate in additional client-focused data projects (“sprints”), work with affiliated faculty as a GRA, and pursue internship placements as they become available.

Grades and honors
A minimum GPA of 3.0 is required for all courses taken in satisfaction of the certificate requirements. A minimum grade of 3.0 is required for the writing requirement. If you take more than the minimum number of courses needed to fulfill certificate requirements, the Executive Director will use the highest grades in courses that fulfill the certificate requirements when calculating GPA for the certificate. If you take multiple courses that may count for a single requirement, the highest grade fulfilling that requirement will be counted for GPA purposes.

Honors will be awarded for achievement of a GPA of 3.6 or higher in all Legal Analytics & Innovation courses taken for the certificate and any additional Legal Analytics & Innovation electives taken above and beyond the requirements. If you do not pass a course taken toward the certificate and you retake the course, both the failing grade from the first attempt and the passing grade from the second attempt will be calculated in the GPA, and you must still maintain a 3.6 to receive honors in the certificate program.

Exceptions
Any exceptions to or modifications of these requirements in individual cases are within the discretion of the Legal Analytics & Innovation Initiative Faculty Director or Executive Director. Before requesting an exception or modification, consult with your faculty advisor for approval.

Requirements Subject to Change
The Legal Analytics & Innovation certificate will continue to evolve over time. The certificate program reserves the right to change requirements to ensure participants obtain maximum
educational benefit consistent with the goals of the program. Additional or alternative courses may be offered or required as part of the certificate program, and some courses may be discontinued. Appropriate advance notice will be given to all students enrolled in the program.

Verification
It is the student’s responsibility to submit a verification form (see attached example) confirming satisfactory completion of certificate requirements no later than the drop-add date of the student’s last semester in the JD program. The faculty advisor must sign the verification form before it is submitted to the Executive Director. The Executive Director will then verify grades after graduation when available from the Registrar.

Timeliness
Every effort should be made to submit these forms in a timely manner. The Faculty Director or Executive Director, at their discretion, may choose not to accept late, incomplete, or unsigned forms.
I am interested in pursuing the certificate program in legal analytics at Georgia State College of Law. I understand that this program requires students to take, at a minimum, 21 hours of coursework for certificate completion. I understand that, in summary, the requirements are:

1. **Required Courses (12 credit hours, depending on background):**
   a. LAW 7675 Legal Analytics (3 credits)
   b. LAW 7676E Applied Legal Analytics Lab (3 credits, experiential)
   c. JD students with prior mathematics/computer programming background:
      i. Any two MSA-prefix courses, with a strong emphasis on the relevance of MSA 8770–Text Mining and MSA 8600–Deep Learning Analytics (6 credits)
   d. JD students without a strong math and programming background must ALSO take these courses prior to taking the MSA courses:
      i. MATH 7100- Basic Math for Analytics (1.5 credits)
      ii. CSC 2302 (or CSC7XXX) - Programming Foundations for Analytics (1.5 credits)
      iii. MATH 7110 -Mathematical Foundations for Analytics (3 credits)

2. **Elective Courses (at least 9 credit hours)**
   a. **Tier 1: Electives (choose at least 6 credit hours)**
      i. LAW 7139- e-Discovery
      ii. LAW 7050- Advanced Legal Research
      iii. LAW 7137- Cyberlaw
      iv. LAW 7631- Contract Drafting & Risk Analysis
      v. LAW 7138- Computers and the Law Seminar
      vi. LAW 7136- Complex Litigation
      vii. LAW 7336- Fundamentals of Law Practice
      viii. LAW 7355- Law and Emerging Technologies
      ix. LAW 7632- The Role of In-House Counsel
      x. LAW- Legal Tech. Competency & Operations
      xi. Other approved graduate courses, such as FI 8460–Introduction to FinTech
b. Tier 2: Electives (choose up to 3 credit hours)
   i. LAW 7270 - Intellectual Property
   ii. LAW 7395 - Mergers and Acquisitions
   iii. LAW 7417 - Patent Law
   iv. LAW 7416 - Patent Drafting and Prosecution
   v. LAW 7435 - Real Estate Transactions
   vi. LAW 7800E Healthcare & Regulatory Practicum

3. Writing Requirement
   Students must complete a substantial writing project (2-3 credit hours), which may also be used to satisfy the College of Law's writing requirement.

4. Extracurricular Activity
   Students are encouraged to participate in legal analytics extracurricular activities such as workshops and boot camp training sessions hosted at the College of Law or Robinson College of Business, participate in additional client-focused data projects ("sprints"), work with affiliated faculty as a GRA, and pursue summer internship placements as they become available.

5. Grades: Minimum GPA of 3.0 in the required courses and minimum of 3.0 for the writing project.

6. Application deadline: Submission of an application form to Faculty advisor and Executive Director before the drop/add date of your last semester before graduation.

Briefly describe your reasons for wanting to pursue the certificate program and your career interests:

Provide evidence of your math, statistics, or computer science background or indicate that you do not have a math, stats, or CS background. If you have taken relevant undergraduate or graduate courses, please list the institution, course name, level (undergraduate or graduate), topics covered (if not clear from the course name), year completed, and grade received. If you have relevant work or other experience, please describe it with specificity, including the coding language(s) you know and your level of skill, and relevant projects or tasks, including the year completed. (attach additional pages or an unofficial transcript if needed).

| Math, Statistics or Computer Science Coursework |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| Institution     | Course Name     | Level (UG/GR)   | Topics          | Year Completed  | Grade           |
|                 |                 |                 |                 |                 |                 |
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Relevant Work Experience

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<th>Job/Project/Task</th>
<th>Programming Languages</th>
<th>Skill Level</th>
<th>Year Completed</th>
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Are you also a dual-degree student? Yes/No  
If yes, please specify: JD/_______________

Are you interested in pursuing a JD/MSA dual degree? Yes/No (answer is non-binding)

Please advise if there is any additional information we should know about your goals and interests:

ACKNOWLEDGEMENT

I acknowledge that I have reviewed the certificate website and packet for full details and information and that I understand all of the requirements for earning a certificate in Legal Analytics. I understand that by enrolling in the certificate program, I am not required to complete it; I may change my mind at any time. I will periodically consult with my Legal Analytics faculty advisor about course selection and my progress toward completing the certificate requirements by the deadlines.

_______________________________________
Student Name (Print)

_______________________________________  _________________________
Student Signature                      Date

Accepted by:

_________________________________________  _________________________
Executive Director, Legal Analytics & Innovation Initiative  Date
MATHEMATICS/PROGRAMMING EXEMPTION
This form for administrative use only.

This form is for administrative use only.

MATHEMATICS/PROGRAMMING EXEMPTION

Student _________________________________ (print name), with student ID number ____________,

[ ] is
[ ] is not

exempt from taking the Math/Programming prerequisite classes prior to enrolling in MSA classes as part of the Legal Analytics certificate program.

Notes:
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________

Version: 1.0 BJC 2/8/2019
**VERIFICATION FOR CERTIFICATE IN LEGAL ANALYTICS**

**Deadline:** This form must be filled out, with your Legal Analytics faculty advisor’s approval, and be submitted to the Executive Director of the Legal Analytics and Innovation Initiative before the drop/add deadline of your last semester before you graduate. Once final grades have been entered and provided by the registrar’s office, the Executive Director will verify that you have met the requirements.

Student Name: ___________________________ Graduation Date (Semester/Year): ___________________________

<table>
<thead>
<tr>
<th>Required Courses (at least 12 credit hours)</th>
<th>Semester/Year</th>
<th>Grade</th>
<th>Professor</th>
<th>Credit hours</th>
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<tbody>
<tr>
<td>LAW 7675</td>
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<tr>
<td>LAW 7676E</td>
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<td>MSA-______________</td>
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<td>MSA-______________</td>
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<td>(additional math/programming courses, if required, must be listed as well)</td>
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Version: 1.0 BJC 2/8/2019
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<tr>
<th>Electives (at least 9 credit hours total)</th>
<th>Semester/Year</th>
<th>Grade</th>
<th>Professor</th>
<th>Credit hours</th>
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<tbody>
<tr>
<td><strong>(Tier 1) (at least 6 hours)</strong></td>
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<tr>
<th>Electives (Tier 2) (up to 3 credit hours)</th>
<th>Semester/Year</th>
<th>Grade</th>
<th>Professor</th>
<th>Credit hours</th>
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<td>Course:</td>
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Are you also completing a dual degree? Yes/No

If yes, please specify: JD/

If so, please be sure to verify that these dual degree requirements have been met.

For our records and so that we might be able to assist with career goals, do you already have a post-graduation position secured? Yes/No

If yes, please describe where and what type of work you anticipate doing: ____________________________

If no, please describe the area of law, type(s) of positions, and location in which you are interested: ____________________

Please specify how you would like your name to appear on the Legal Analytics certificate:
Please specify the address where you would like your certificate mailed:

________________________________________________________________________

________________________________________________________________________

CERTIFICATION: I certify that the above information is true and accurate and that I have completed all of the requirements for the Legal Analytics certificate.

________________________________________________________________________

Student Name (Print)

________________________________________________________________________

Student Signature                                      Date

Approved by:

________________________________________________________________________

Legal Analytics Faculty Advisor                        Date
GRADE VERIFICATION FORM
This form is for administrative use only

This box for administrative use only.

Grades verified by:

______________________________________________  __________________________

Print name

Executive Director, Legal Analytics and Innovation Initiative    Date

Graduation Date (Semester/Year): ________________________________

GPA for Required Certificate Courses: _______________  3.0 or Greater? Yes   No

Writing Requirement 3.0 or Greater? Yes    No

GPA for all Legal Analytics courses: _______________  3.6 or Greater? Yes    No