

# NATURAL LANGUAGE PROCESSING GRADUATE CREDIT CERTIFICATE PROGRAM

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<b>Person-in-Charge</b>	Raghu Sangwan
<b>Program Code</b>	MAINLP
<b>Campus(es)</b>	Great Valley World Campus

The Natural Language Processing (NLP) Graduate Certificate prepares students for working as an NLP Engineer who will analyze, identify, architect, design, and implement NLP based systems. Students master the following skill set essential to this industry role:

- Identifying NLP tasks
- Framing NLP problems (language translation, chatbots, speech recognition, language models, etc.)
- Designing NLP pipelines to collect and preprocess textual data.
- Building and evaluating NLP models based on deep neural networks.
- Implementing explainable and interpretable NLP models.
- Evaluating ethical and fairness in NLP tasks

Courses taken in the certificate program may be applied toward a master's degree in Artificial Intelligence, subject to restrictions outlined in GCAC-309 Transfer Credit (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-300/gcac-309-transfer-credit/>). Certificate students who wish to have certificate courses applied towards a graduate degree must apply and be admitted to that degree program. Admission to the graduate degree program is a separate step and is not guaranteed.

**Effective Semester:** Spring 2024

**Expiration Semester:** Spring 2029