Synthesis of the curriculum.

It is a **doctorate program**. To understand the program, an example of applied research in *intelligent systems* is a brain-computer interface for disability applications as in the case of moving a wheelchair with the mind. The area of intelligent systems requires research and mastery of **Mathematics** as it is the case of Linear Algebra, Statistics, Dynamic Systems, Optimization. This is the reason why entry and exit profiles talk about **skills for mathematical formalization and algorithm design**.

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The intelligent systems program comprises three lines of research which are (1) Multimedia Signal **Processing**, (2) **Bio-inspired Systems**, and (2) **environments and intelligent agents**. The faculty, affiliated to the doctoral program, has **members** in **the national research system** (SNI) at different levels. All faculty professors, affiliated to the program, participate in research activities through publications in indexed journals, research projects with external funding and joint research projects with other universities. Researchers have access to the Southern Supercomputing Laboratory. This laboratory is part of a joint effort by a consortium of three research institutions BUAP-UDLAP-INAOE, by having a super computer for high-impact research in different disciplines of science and engineering.