9 Facts about FIU

- The student population comes from all 50 US states and 142 countries.
- FIU has the biggest Hispanic population
- The university offers more than 180 degrees
- FIU is among the top 10 largest universities in the USA.
- FIU alumni go on to do great things.
- FIU has more than 200,000 FIU alumni out there.
- 96% of FIU faculty members hold a doctoral degree or the highest degree in their field.
- FIU operates the only underwater ocean laboratory in the world.
- FIU is Miami’s first and only four-year public research university.
FIU’S VISION

A leading student-centered urban public research university that is locally and globally engaged.”
APPROACH TO INTERNATIONAL RESEARCH AND EDUCATION

- International Career Development Internship
- Alternative Breaks
- Hosting foreign Scholars
- Short-term Programs
- Exchange Programs
- Offering Study Abroad Programs
- Attracting and Retaining Internationally Experienced Faculty and Staff
- Attracting Foreign Students

Fostering a Multi-cultural Environment to Graduate Global Citizens
CONTRIBUTIONS TO INTERNATIONAL DEVELOPMENT

Global Water for Sustainability (GLOWS)
GLOWS projects geographical distribution: Peru, Ecuador, Morocco, Tanzania, Kenya, Georgia, Ghana, Niger, India, Burkina Faso, Mexico, Honduras, Haiti, and Rwanda.

US$ 85,000,000.00
University-wide research and capacity building institute, with a multi-disciplinary focus and emphasis on water, global change and environmental conservation.

outgrows of SERC (everglades research) the Global Water for Sustainability (GLOWS) program and other entities.
Water: a vital resource

Water Security: a key challenge for the 21st century
Applying Integrated Water Resources Management (IWRM) is critical for the successful implementation and long term benefits of interventions in development water program of various nature
Water Security Challenges

- Defining the sustainability of an IWRM scheme
- What elements / characteristics/ conditions are key to sustainability?
- Where, when and how to measure these key elements?
- Identifying and defining actors.
UNESCO CHAIR

SUSTAINABLE WATER SECURITY

at FLORIDA INTERNATIONAL UNIVERSITY
Water Related Disasters and Hydrologic al Changes

Groundwater in a Changing Environmen t

Addressing Water Scarcity and Quality

Water and Human Settlements of the Future

Ecohydrology Engineering Harmony for a Sustainable World

Education, Key to Water Security

Axis 1
Mobilizing International cooperation to Improve knowledge and innovation to address water security challenges

Axis 2
Strengthening the Science-Policy interface to reach water security at local, national, regional, and global levels

Axis 3
Developing institutional and human capacities for water security and sustainability

Water Security, Addressing Local, Regional and Global Challenges
Putting science into action

Synthesis of experiences
- Water quality / scarcity
- Water-related Disasters
- Human settlements
- Groundwater
- Ecohydrology
- reports, papers, training

Society-Science Interface
- databases, toolboxes, guidance documents, knowledge platforms

Connecting People
- workshops, conferences, networking, mobile phones, radio
- professionals, researchers, policy makers, general public
SDG
Goal 6:
Insure availability and sustainable management

The UNESCO Chair on Water Security Sustainability

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Sustainable Water Resources Management

Indicator Framework

- 5 Sustainability Factors
- 21 Indicators
- 81 Sub-Indicator questions
- 3 spatial levels

(For comparison: WASH SIT for Community Handpump includes 5 factors, 24 indicators, 89 sub-indicator questions, and 3 spatial levels)
Development of Hydrological Models for Small Island Development States (Haiti)

- High resolution model in the area of the Caracol Industrial Park (PIC)

- Low resolution model for the Trou du Nord Basin
GIS, mapping and atlas: capacity building in the Ministry of Water in Tanzania
Environmental Flow Assessment (EFA)
- EPastaza River in Peru, and Ecuador,
- Mara River in Kenya and Tanzania

Sediment Fingerprinting
- Wami-Ruvu in Tanzania
- Various rivers in Rwanda
Community Water Monitoring

Introducing rainfall monitoring in primary schools
Thank you!